STIC Search Report
EIC 1700

USPTO

STIC Database Tracking Number: 210035

TO:	From:
Nathan Nutter Location: Remsen 10b75 Art Unit : 1711 December 12, 2006 Phone: 571-272-1076 Serial Number: 10 / 516698	Jan Delaval Location: EIC 1700 Remsen 4a30 Phone: 571-272-2504 jan.delaval@uspto.gov

Search Notes

Search and Information Resources Administration

Access DB# 210035

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Nathan Nutter Examiner #: 61046 Date: 11 Dec 2006
Art Unit: 1711 Phone Number 30 21076 Serial Number: 10/516,698
Mail Box and Bldg/Room Location: Remsen B 75 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

****

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: (Meth)acrylic esters of polyalkoxylated trimethylol propane

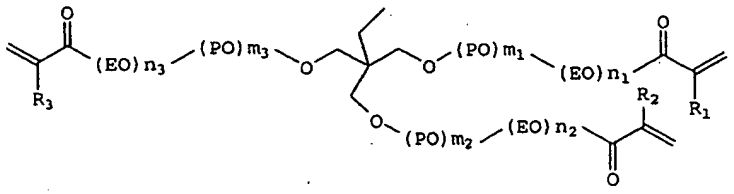
Inventors (please provide full names): Popp et al

Earliest Priority Filing Date: 06/11/2002

**For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

IN THE CLAIMS:

1. (Previously presented) An ester F of formula I



I

wherein EO is O-CH2-CH2-,

PO is independently at each instance O-CH2-CH(CH3)- or O-CH(CH3)-CH2-,

n1, n2, and n3 are independently 4, 5, or 6,

n1 + n2 + n3 is 14, 15, or 16,

m1, m2, and m3 are independently 1, 2, or 3,

m1 + m2 + m3 is 4, 5, or 6, and

R1, R2, and R3 are independently H or CH3.

****

STAFF USE ONLY	Type of Search	Vendors and cost where applicable
Searcher: Jan	NA Sequence (#)	STN ✓
Searcher Phone #: 22504	AA Sequence (#)	Dialog
Searcher Location:	Structure (#) ✓	Questel/Orbit
Date Searcher Picked Up: 12/12/06	Bibliographic	Dr.Link
Date Completed: 12/12/06	Litigation	Lexis/Nexis
Searcher Prep & Review Time:	Fulltext	Sequence Systems
Clerical Prep Time: 20	Patent Family	WWW/Internet
Online Time: 80	Other	Other (specify)

PTO-1590 (8-01)

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FILE 'REGISTRY' ENTERED AT 08:52:43 ON 12 DEC 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:   11 DEC 2006  HIGHEST RN 915185-72-7
DICTIONARY FILE UPDATES:  11 DEC 2006  HIGHEST RN 915185-72-7

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=> d sta que l25
L17             STR

                              @9
                              C
                              |
           5                  |
           O                  |
           ||                 Me
           ||                 7
CH2==G1--C---O
1      2   3   4

VAR G1=CH/9
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

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NUMBER OF NODES IS   7

STEREO ATTRIBUTES: NONE
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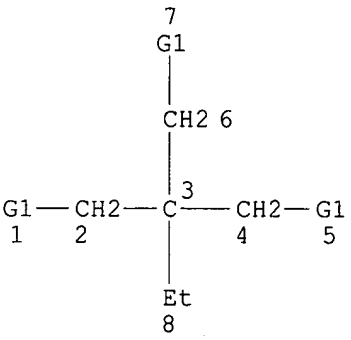


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NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS   8

STEREO ATTRIBUTES: NONE
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L25       15641 SEA FILE=REGISTRY SUB=L23 SSS FUL L17

100.0% PROCESSED   17121 ITERATIONS                      15641 ANSWERS
SEARCH TIME: 00.00.01


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               SEL RN

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L3            28 S L2 NOT PMS/CI
L4             1 S L3 AND C6H14O3
L5             1 S L3 AND C3H4O2
L6             1 S L3 AND C4H6O2
L7            47 S L2 NOT L3
L8            12 S L7 AND 1/NC
L9            35 S L7 NOT L8
L10           16 S L9 AND 77-99-6/CRN
L11           16 S L10 AND C2H4O
L12           16 S L11 AND C3H6O
L13            4 S L12 AND 4/NC
L14           12 S L12 NOT L13
               SEL RN 4 9 11
L15            3 S E76-E78
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L17              STR
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L19             STR
L20           0 S L19
L21             STR L19
L22          50 S L21
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L24          50 S L17 SAM SUB=L23
L25       15641 S L17 FUL SUB=L23
                SAV TEMP L25 NUTTER516A/A
L26         497 S L25 AND (75-21-8 OR 25322-68-3)/CRN
L27        2695 S L25 AND C2H4O
L28        2198 S L27 NOT L26
L29         437 S L25 AND (75-56-9 OR 25322-69-4)/CRN
L30        1208 S L25 AND C3H6O
L31         771 S L30 NOT L29
L32         430 S L26-L28 AND L29-L31
L33         195 S L32 NOT (P OR SI OR N OR S)/ELS
L34         114 S L33 NOT C6/ES
L35         107 S L34 NOT L16
L36          50 S L35 AND (77-99-6 OR 79-41-4)/CRN
L37          34 S L35 AND 77-99-6/CRN
L38          28 S L37 AND (79-41-4 OR 79-10-7)/CRN
L39          24 S L38 NOT (OC4 OR OC4-C6)/ES
                SEL RN 1 2 10-12 14 17 10 22 24
L40           9 S E79-E87
L41          15 S L39 AND C6H14O3 NOT L40
                SEL RN 12
L42           1 S E88
L43          10 S L37 AND C6H14O3 NOT L39
L44          16 S L36 NOT L37-L43
L45          57 S L35 NOT L36-L44
L46         323 S L32 NOT L35-L45
L47          51 S L46 NOT (C6 OR OC4 OR OC5 OR OC4-C6 OR C6-C6 OR C5-C5)/ES
L48          47 S L47 NOT 56-81-5/CRN
L49          40 S L48 AND (N OR S OR P OR SI)/ELS
L50           7 S L48 NOT L49
L51           6 S L50 NOT 28961-43-5/CRN
L52         410 S L25 AND 107-21-1/CRN
L53        3059 S L52,L26-L28
L54         454 S L53 AND L29-L31
L55          99 S L53 AND 57-55-6/CRN
L56           0 S L53 AND C3H8O2 NOT L55
L57         538 S L54,L55
L58         108 S L57 NOT L32-L51
L59          22 S L58 AND UNSPECIFIED
L60          86 S L58 NOT L59
L61          16 S L60 NOT (C6 OR OC4 OR OC4-C6 OR C6-C6 OR C5-C5)/ES
L62           6 S L16 NOT 28961-43-5/CRN
L63          16 S L62,L40,L42,L51
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L65          15 S L63
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L70 7 S L68 AND BASF?/PA,CS
L71 4 S L68 AND (POPP ? OR DANIEL ? OR SCHRODER ? OR SCHROEDER ? OR J
L72 22 S L68-L71

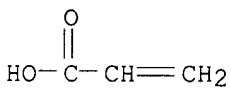
FILE 'REGISTRY' ENTERED AT 08:52:43 ON 12 DEC 2006

=> d ide can tot 163

L63 ANSWER 1 OF 16 REGISTRY COPYRIGHT 2006 ACS on STN
RN **824950-59-6** REGISTRY
ED Entered STN: 03 Feb 2005
CN 2-Propenoic acid, polymer with methyloxirane diblock polymer with oxirane ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) tri-2-propenoate, and sodium 2-propenoate (9CI) (CA INDEX NAME)
MF (C6 H14 O3 . 3 (C3 H6 O . C2 H4 O)x . 3 C3 H4 O2 . C3 H4 O2 . C3 H4 O2 . Na)x
CI PMS
PCT Polyacrylic, Polyether, Polyether formed, Polyother
SR CA
LC STN Files: CA, CAPLUS

CM 1

CRN 7446-81-3 (79-10-7)
CMF C3 H4 O2 . Na



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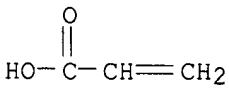
CM 2

CRN 79-10-7
CMF C3 H4 O2

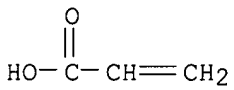


CM 3

CRN 824950-31-4
CMF C6 H14 O3 . 3 (C3 H6 O . C2 H4 O)x . 3 C3 H4 O2

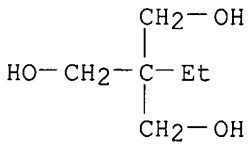
CM 4

CRN 79-10-7
CMF C3 H4 O2



CM 5

CRN 77-99-6
CMF C6 H14 O3

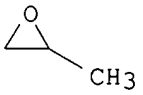


CM 6

CRN 697765-47-2
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 7

CRN 75-56-9
CMF C3 H6 O



CM 8

CRN 75-21-8
CMF C2 H4 O

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

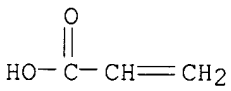
REFERENCE 1: 141:350865

L63 ANSWER 2 OF 16 REGISTRY COPYRIGHT 2006 ACS on STN
RN **824950-31-4** REGISTRY

ED Entered STN: 03 Feb 2005
CN Oxirane, methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), tri-2-propenoate, diblock (9CI) (CA INDEX NAME)
MF **C6 H14 O3 . 3 (C3 H6 O . C2 H4 O)x . 3 C3 H4 O2**
CI COM
PCT Polyether, Polyether formed
SR CA
LC STN Files: CA, CAPLUS

CM 1

CRN 79-10-7
CMF C3 H4 O2



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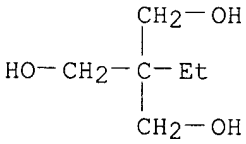
CRN 77-99-6
CMF C6 H14 O3

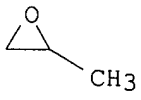


CM 3

CRN 697765-47-2
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 4

CRN 75-56-9
CMF C3 H6 O



CM 5

CRN 75-21-8
CMF C2 H4 O

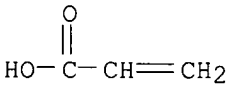
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 141:350865

L63 ANSWER 3 OF 16 REGISTRY COPYRIGHT 2006 ACS on STN
RN **774586-49-1** REGISTRY
ED Entered STN: 04 Nov 2004
CN 2-Propenoic acid, sodium salt, polymer with methyloxirane block polymer with oxirane ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) tri-2-propenoate (9CI) (CA INDEX NAME)
MF (C6 H14 O3 . 3 (C3 H6 O . C2 H4 O)x . 3 C3 H4 O2 . C3 H4 O2 . Na)x
CI PMS
PCT Polyacrylic, Polyether, Polyether formed, Polyother
SR CA

CM 1

CRN 7446-81-3 (79-10-7)
CMF C3 H4 O2 . Na



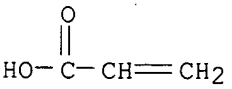
● Na

CM 2

CRN 633314-14-4
CMF C6 H14 O3 . 3 (C3 H6 O . C2 H4 O)x . 3 C3 H4 O2

CM 3

CRN 79-10-7
CMF C3 H4 O2



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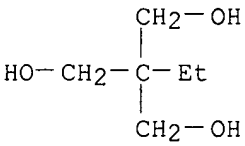
CRN 77-99-6
CMF C6 H14 O3

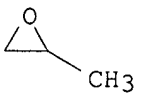


CM 5

CRN 106392-12-5
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 6

CRN 75-56-9
CMF C3 H6 O



CM 7

CRN 75-21-8
CMF C2 H4 O

L63 ANSWER 4 OF 16 REGISTRY COPYRIGHT 2006 ACS on STN
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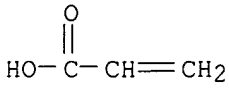
ED Entered STN: 04 Nov 2004
CN 2-Propenoic acid, polymer with methyloxirane polymer with oxirane ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) tri-2-propenoate, and sodium 2-propenoate (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Acrylic acid-ethylene oxide-propylene oxide copolymer trimethylolpropane ether triacrylate-sodium acrylate copolymer
MF **(C6 H14 O3 . 3 (C3 H6 O . C2 H4 O)x . 3 C3 H4 O2 . C3 H4 O2 . C3 H4 O2 . Na)x**
CI PMS
PCT Polyacrylic, Polyether, Polyether formed, Polyother
SR CA
LC STN Files: CA, CAPLUS

CM 1

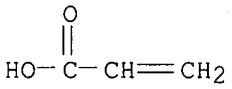
CRN 7446-81-3 (79-10-7)
CMF C3 H4 O2 . Na



● Na

CM 2

CRN 79-10-7
CMF C3 H4 O2



CM 3

CRN 117989-76-1
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CM 4

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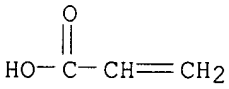
CMF C3 H4 O2



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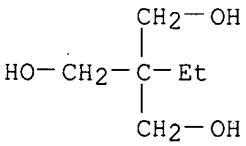
CRN 77-99-6
CMF C6 H14 O3



CM 6

CRN 9003-11-6
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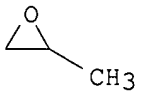
CM 7

CRN 75-56-9
CMF C3 H6 O



CM 8

CRN 75-21-8
CMF C2 H4 O

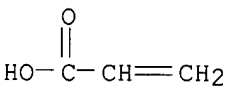
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 141:350828

L63 ANSWER 5 OF 16 REGISTRY COPYRIGHT 2006 ACS on STN
RN **633314-15-5** REGISTRY
ED Entered STN: 02 Jan 2004
CN 2-Propenoic acid, polymer with methyloxirane block polymer with oxirane ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) tri-2-propenoate, and sodium 2-propenoate (9CI) (CA INDEX NAME)
MF **(C6 H14 O3 . 3 (C3 H6 O . C2 H4 O)x . 3 C3 H4 O2 . C3 H4 O2 . C3 H4 O2 . Na)x**
CI PMS
PCT Polyother
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 7446-81-3 (79-10-7)
CMF C3 H4 O2 . Na



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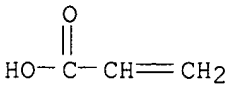

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CM 4

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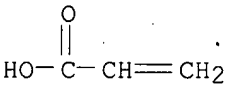

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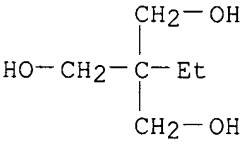

CM 6

CRN 106392-12-5
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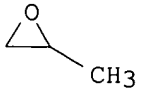
CCI PMS

CM 7

CRN 75-56-9
CMF C3 H6 O



CM 8

CRN 75-21-8
CMF C2 H4 O

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

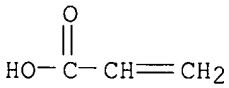
REFERENCE 1: 140:43143

REFERENCE 2: 140:28395

L63 ANSWER 6 OF 16 REGISTRY COPYRIGHT 2006 ACS on STN
RN **633314-14-4** REGISTRY
ED Entered STN: 02 Jan 2004
CN Oxirane, methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), tri-2-propenoate, block (9CI) (CA INDEX NAME)
MF **C6 H14 O3 . 3 (C3 H6 O . C2 H4 O)x . 3 C3 H4 O2**
CI COM
PCT Polyether, Polyether formed
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

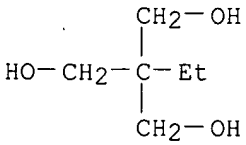
CM 1

CRN 79-10-7
CMF C3 H4 O2



CM 2

CRN 77-99-6
CMF C6 H14 O3



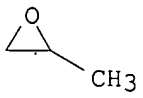
CM 3

CRN 106392-12-5
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 4

CRN 75-56-9

CMF C3 H6 O



CM 5

CRN 75-21-8
CMF C2 H4 O

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

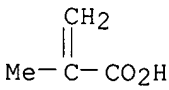
REFERENCE 1: 140:43143

REFERENCE 2: 140:28395

L63 ANSWER 7 OF 16 REGISTRY COPYRIGHT 2006 ACS on STN
RN **161278-82-6** REGISTRY
ED Entered STN: 07 Mar 1995
CN Oxirane, methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), tris(2-methyl-2-propenoate) (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Oxirane, polymer with methyloxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediyl (3:1), tris(2-methyl-2-propenoate) (9CI)
MF C6 H14 O3 . 3 C4 H6 O2 . 3 (C3 H6 O . C2 H4 O)x
PCT Polyether, Polyether formed
SR CA
LC STN Files: CA, CAPLUS

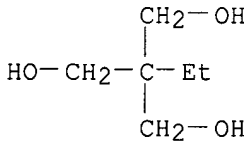
CM 1

CRN 79-41-4
CMF C4 H6 O2



CM 2

CRN 77-99-6
CMF C6 H14 O3

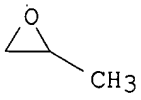


CM 3

CRN 9003-11-6
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 4

CRN 75-56-9
CMF C3 H6 O



CM 5

CRN 75-21-8
CMF C2 H4 O

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

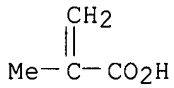
REFERENCE 1: 140:102019

REFERENCE 2: 122:147331

L63 ANSWER 8 OF 16 REGISTRY COPYRIGHT 2006 ACS on STN
RN **150604-34-5** REGISTRY
ED Entered STN: 14 Oct 1993
CN Oxirane, methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), tris(2-methyl-2-propenoate), block (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Oxirane, polymer with methyloxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), tris(2-methyl-2-propenoate), block (9CI)
DR 633314-17-7
MF **C6 H14 O3 . 3 C4 H6 O2 . 3 (C3 H6 O . C2 H4 O)x**
PCT Polyether, Polyether formed
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

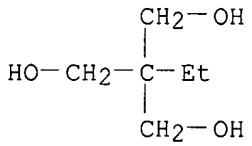
CM 1

CRN 79-41-4
CMF C4 H6 O2



CM 2

CRN 77-99-6
CMF C6 H14 O3

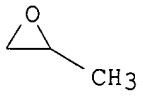


CM 3

CRN 106392-12-5
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 4

CRN 75-56-9
CMF C3 H6 O



CM 5

CRN 75-21-8
CMF C2 H4 O

3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:43143

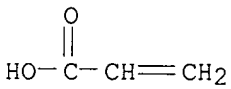
REFERENCE 2: 140:28395

REFERENCE 3: 119:275100

L63 ANSWER 9 OF 16 REGISTRY COPYRIGHT 2006 ACS on STN
RN **125472-01-7** REGISTRY
ED Entered STN: 16 Feb 1990
CN 2-Propenoic acid, polymer with methyloxirane polymer with oxirane ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) tri-2-propenoate (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Oxirane, methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), tri-2-propenoate, polymer with 2-propenoic acid (9CI)
CN Oxirane, polymer with methyloxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), tri-2-propenoate, polymer with 2-propenoic acid (9CI)
MF (C6 H14 O3 . 3 (C3 H6 O . C2 H4 O)x . 3 C3 H4 O2 . C3 H4 O2)x
CI PMS
PCT Polyacrylic, Polyether, Polyether formed, Polyother
SR Environment Canada (EC)
LC STN Files: CHEMLIST
Other Sources: DSL**
(**Enter CHEMLIST File for up-to-date regulatory information)

CM 1

CRN 79-10-7
CMF C3 H4 O2

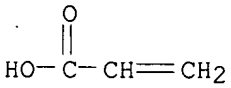


CM 2

CRN 117989-76-1
CMF C6 H14 O3 . 3 (C3 H6 O . C2 H4 O)x . 3 C3 H4 O2

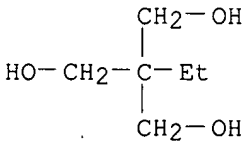
CM 3

CRN 79-10-7
CMF C3 H4 O2



CM 4

CRN 77-99-6
CMF C6 H14 O3

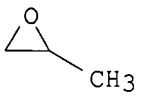


CM 5

CRN 9003-11-6
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 6

CRN 75-56-9
CMF C3 H6 O



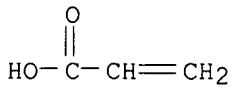
CM 7

CRN 75-21-8
CMF C2 H4 O

L63 ANSWER 10 OF 16 REGISTRY COPYRIGHT 2006 ACS on STN
RN **118800-30-9** REGISTRY
ED Entered STN: 03 Feb 1989
CN Oxirane, methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), 2-propenoate (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Oxirane, polymer with methyloxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), 2-propenoate (9CI)
OTHER NAMES:
CN Ethylene oxide-propylene oxide copolymer ether trimethylolpropane with acrylate
CN Trimethylolpropane-initiated ethylene oxide-propylene oxide copolymer acrylate
DR 151437-90-0
MF C6 H14 O3 . 3 (C3 H6 O . C2 H4 O)x . x C3 H4 O2
CI COM
PCT Polyether, Polyether formed
SR CAS Client Services
LC STN Files: CA, CAPLUS, CHEMLIST, USPATFULL

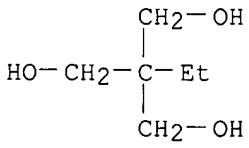
CM 1

CRN 79-10-7
CMF C3 H4 O2



CM 2

CRN 77-99-6
CMF C6 H14 O3

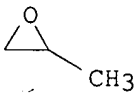


CM 3

CRN 9003-11-6
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 4

CRN 75-56-9
CMF C3 H6 O



CM 5

CRN 75-21-8
CMF C2 H4 O

6 REFERENCES IN FILE CA (1907 TO DATE)
6 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 144:171517

REFERENCE 2: 126:344211

REFERENCE 3: 125:302320

REFERENCE 4: 122:92840

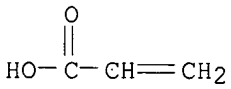
REFERENCE 5: 120:334936

REFERENCE 6: 119:283964

L63 ANSWER 11 OF 16 REGISTRY COPYRIGHT 2006 ACS on STN
RN **117989-76-1** REGISTRY
ED Entered STN: 16 Dec 1988
CN Oxirane, methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), tri-2-propenoate (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Oxirane, polymer with methyloxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), tri-2-propenoate (9CI)
MF **C6 H14 O3 . 3 (C3 H6 O . C2 H4 O)x . 3 C3 H4 O2**
CI COM
PCT Polyether, Polyether formed
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

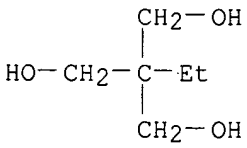
CM 1

CRN 79-10-7
CMF C3 H4 O2



CM 2

CRN 77-99-6
CMF C6 H14 O3

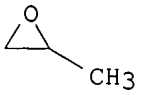


CM 3

CRN 9003-11-6
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 4

CRN 75-56-9
CMF C3 H6 O



CM 5

CRN 75-21-8
CMF C2 H4 O

10 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
10 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 141:350828

REFERENCE 2: 140:102019

REFERENCE 3: 133:65978

REFERENCE 4: 132:152313

REFERENCE 5: 131:37785

REFERENCE 6: 127:97521

REFERENCE 7: 122:147331

REFERENCE 8: 119:51269

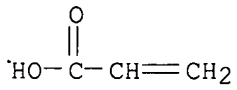
REFERENCE 9: 119:10401

REFERENCE 10: 110:9783

L63 ANSWER 12 OF 16 REGISTRY COPYRIGHT 2006 ACS on STN
RN **117801-95-3** REGISTRY
ED Entered STN: 02 Dec 1988
CN 2-Propenoic acid, polymer with methyloxirane block polymer with oxirane ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) 2-propenoate (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Oxirane, methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), 2-propenoate, block, polymer with 2-propenoic acid (9CI)
CN Oxirane, polymer with methyloxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), 2-propenoate, block, polymer with 2-propenoic acid (9CI)
MF (C6 H14 O3 . 3 (C3 H6 O . C2 H4 O)x . x C3 H4 O2 . C3 H4 O2)x
CI PMS
PCT Polyacrylic, Polyether, Polyether formed, Polyother
SR CA
LC STN Files: CA, CAPLUS

CM 1

CRN 79-10-7
CMF C3 H4 O2

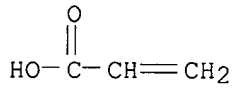


CM 2

CRN 117742-99-1
CMF C6 H14 O3 . 3 (C3 H6 O . C2 H4 O)x . x C3 H4 O2

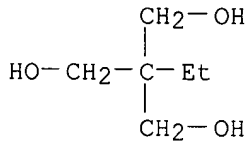
CM 3

CRN 79-10-7
CMF C3 H4 O2



CM 4

CRN 77-99-6
CMF C6 H14 O3

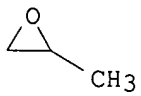


CM 5

CRN 106392-12-5
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 6

CRN 75-56-9
CMF C3 H6 O



CM 7

CRN 75-21-8
CMF C2 H4 O

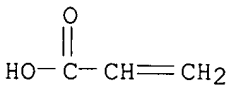
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 110:10884

L63 ANSWER 13 OF 16 REGISTRY COPYRIGHT 2006 ACS on STN
RN **117742-99-1** REGISTRY
ED Entered STN: 02 Dec 1988
CN Oxirane, methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), 2-propenoate, block (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Oxirane, polymer with methyloxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), 2-propenoate, block (9CI)
MF C6 H14 O3 . 3 (C3 H6 O . C2 H4 O)x . x C3 H4 O2
CI COM
PCT Polyether, Polyether formed
SR CA

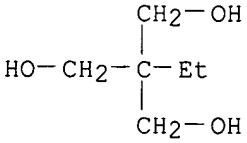
CM 1

CRN 79-10-7
CMF C3 H4 O2



CM 2

CRN 77-99-6
CMF C6 H14 O3

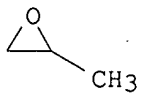


CM 3

CRN 106392-12-5
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 4

CRN 75-56-9
CMF C3 H6 O



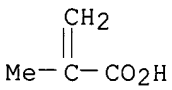
CM 5

CRN 75-21-8
CMF C2 H4 O

L63 ANSWER 14 OF 16 REGISTRY COPYRIGHT 2006 ACS on STN
RN **115165-81-6** REGISTRY
ED Entered STN: 09 Jul 1988
CN Oxirane, methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), 2-methyl-2-propenoate, block (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Oxirane, polymer with methyloxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), 2-methyl-2-propenoate, block (9CI)
MF C6 H14 O3 . x C4 H6 O2 . 3 (C3 H6 O . C2 H4 O)x
PCT Polyether, Polyether formed
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

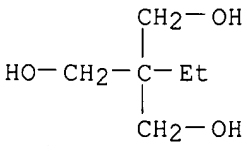
CM 1

CRN 79-41-4
CMF C4 H6 O2



CM 2

CRN 77-99-6
CMF C6 H14 O3

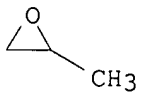


CM 3

CRN 106392-12-5
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 4

CRN 75-56-9
CMF C3 H6 O



CM 5

CRN 75-21-8
CMF C2 H4 O

2 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 119:283964

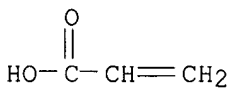
REFERENCE 2: 110:10884

L63 ANSWER 15 OF 16 REGISTRY COPYRIGHT 2006 ACS on STN
RN **67184-01-4** REGISTRY
ED Entered STN: 16 Nov 1984
CN 2-Propenoic acid, polymer with methyloxirane polymer with oxirane ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Oxirane, methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), polymer with 2-propenoic acid (9CI)
CN Oxirane, polymer with methyloxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), polymer with 2-propenoic acid (9CI)
OTHER NAMES:
CN Acrylic acid-polyethylene-polypropylene glycol trimethylolpropane ether (3:1) copolymer
MF (C6 H14 O3 . 3 (C3 H6 O . C2 H4 O)x . C3 H4 O2)x

CI PMS
PCT Polyacrylic, Polyether, Polyether formed, Polyother
LC STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 79-10-7
CMF C3 H4 O2

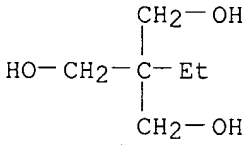


CM 2

CRN 52624-57-4
CMF C6 H14 O3 . 3 (C3 H6 O . C2 H4 O)x

CM 3

CRN 77-99-6
CMF C6 H14 O3

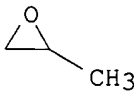


CM 4

CRN 9003-11-6
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 5

CRN 75-56-9
CMF C3 H6 O



CM 6

CRN 75-21-8
CMF C2 H4 O

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

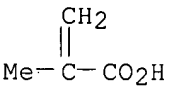
REFERENCE 1: 90:7044

REFERENCE 2: 89:111127

L63 ANSWER 16 OF 16 REGISTRY COPYRIGHT 2006 ACS on STN
RN **67183-99-7** REGISTRY
ED Entered STN: 16 Nov 1984
CN 2-Propenoic acid, 2-methyl-, polymer with methyloxirane polymer with oxirane ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) and 2-propenoic acid (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 2-Propenoic acid, polymer with methyloxirane polymer with oxirane ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) and 2-methyl-2-propenoic acid (9CI)
CN Oxirane, methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), polymer with 2-methyl-2-propenoic acid and 2-propenoic acid (9CI)
CN Oxirane, polymer with methyloxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), polymer with 2-methyl-2-propenoic acid and 2-propenoic acid (9CI)
MF (C6 H14 O3 . C4 H6 O2 . 3 (C3 H6 O . C2 H4 O)x . C3 H4 O2)x
CI PMS
PCT Polyacrylic, Polyether, Polyether formed, Polyother
LC STN Files: CA, CAPLUS, USPATFULL

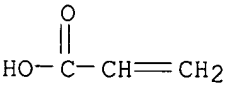
CM 1

CRN 79-41-4
CMF C4 H6 O2



CM 2

CRN 79-10-7
CMF C3 H4 O2



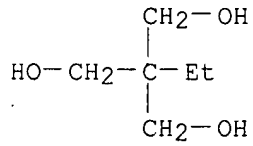
CM 3

CRN 52624-57-4

CMF C6 H14 O3 . 3 (C3 H6 O . C2 H4 O)x

CM 4

CRN 77-99-6
CMF C6 H14 O3

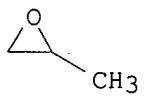


CM 5

CRN 9003-11-6
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 6

CRN 75-56-9
CMF C3 H6 O



CM 7

CRN 75-21-8
CMF C2 H4 O

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 90:7044

REFERENCE 2: 89:111127

=> fil uspatful
FILE 'USPATFULL' ENTERED AT 08:53:04 ON 12 DEC 2006
CA INDEXING COPYRIGHT (C) 2006 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 12 Dec 2006 (20061212/PD)
FILE LAST UPDATED: 12 Dec 2006 (20061212/ED)
HIGHEST GRANTED PATENT NUMBER: US7150045
HIGHEST APPLICATION PUBLICATION NUMBER: US2006277640

CA INDEXING IS CURRENT THROUGH 12 Dec 2006 (20061212/UPCA)
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 12 Dec 2006 (20061212/PD)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2006
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2006

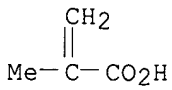
=> d l66 bib abs hitstr tot

L66 ANSWER 1 OF 11 USPATFULL on STN
AN 2006:22244 USPATFULL
TI (Meth) acrylic esters of polyalkoxylated trimethylolpropane
IN Popp, Andreas, Birkenheide, GERMANY, FEDERAL REPUBLIC OF
Daniel, Thomas, Waldsee, GERMANY, FEDERAL REPUBLIC OF
Schroder, Jurgen, Ludwigshafen, GERMANY, FEDERAL REPUBLIC OF
Jaworek, Thomas, Kallstadt, GERMANY, FEDERAL REPUBLIC OF
Funk, Rudiger, Niedernhausen, GERMANY, FEDERAL REPUBLIC OF
Schwalm, Reinhold, Wachenheim, GERMANY, FEDERAL REPUBLIC OF
Wesimantel, Matthias, Jossgrund-Oberndorf, GERMANY, FEDERAL REPUBLIC OF
Riegel, Ulrich, Frankfurt, GERMANY, FEDERAL REPUBLIC OF
PI US 2006020078 A1 20060126
AI US 2003-516698 A1 20030610 (10)
WO 2003-EP6054 20030610
20041201 PCT 371 date
PRAI DE 2002-10225943 20020611 <--
DE 2003-10315336 20030403
DT Utility
FS APPLICATION
LREP MARSHALL, GERSTEIN & BORUN LLP, 233 S. WACKER DRIVE, SUITE 6300, SEARS TOWER, CHICAGO, IL, 60606, US
CLMN Number of Claims: 30
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 2050
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention relates to novel (meth)acrylic esters of polyalkoxylated trimethylolpropane of the formula ##STR1## where EO is O--CH2-CH2- PO is independently at each instance O--CH2-CH(CH3)- or O--CH(CH3)-CH2- n1, n2 and n3 are independently 4, 5 or 6, n1+n2+n3 is 14, 15 or 16, m1, m2 and m3 are independently 1, 2 or 3, m1+m2+m3 is 4, 5 or 6, R1, R2 and R3 are independently H or CH3, a simplified process for preparing these esters and the use of reaction mixtures thus obtainable.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT **150604-34-5P**
(acrylic esters of alkoxylated trimethylolpropane useful in production of hydrogels)
RN 150604-34-5 USPATFULL
CN Oxirane, methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), tris(2-methyl-2-propenoate), block (9CI) (CA INDEX NAME)

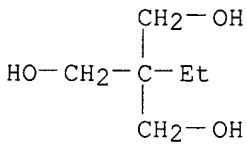
CM 1

CRN 79-41-4
CMF C4 H6 O2



CM 2

CRN 77-99-6
CMF C6 H14 O3

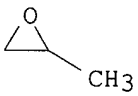


CM 3

CRN 106392-12-5
CMF (C3 H6 O . C2 H4 O)x
CCI PMS
CDES 8:PM,BLOCK

CM 4

CRN 75-56-9
CMF C3 H6 O



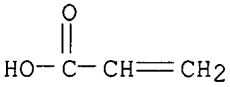
CM 5

CRN 75-21-8
CMF C2 H4 O

IT **633314-15-5P**
(acrylic esters of alkoxylated trimethylolpropane useful in production of hydrogels)
RN 633314-15-5 USPATFULL
CN 2-Propenoic acid, polymer with methyloxirane block polymer with oxirane ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) tri-2-propenoate, and sodium 2-propenoate (9CI) (CA INDEX NAME)

CM 1

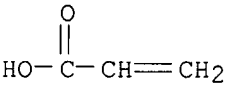
CRN 7446-81-3
CMF C3 H4 O2 . Na



● Na

CM 2

CRN 79-10-7
CMF C3 H4 O2

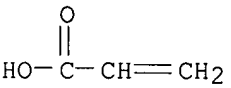


CM 3

CRN 633314-14-4
CMF C6 H14 O3 . 3 (C3 H6 O . C2 H4 O)x . 3 C3 H4 O2
CDES 8:GD,ESTER,ETHER

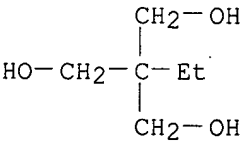
CM 4

CRN 79-10-7
CMF C3 H4 O2



CM 5

CRN 77-99-6
CMF C6 H14 O3

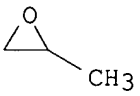


CM 6

CRN 106392-12-5
CMF (C3 H6 O . C2 H4 O)x
CCI PMS
CDES 8:PM,BLOCK

CM 7

CRN 75-56-9
CMF C3 H6 O



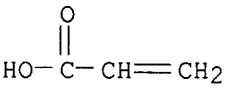
CM 8

CRN 75-21-8
CMF C2 H4 O

IT **633314-14-4P**
(acrylic esters of alkoxylated trimethylolpropane useful in production of hydrogels)
RN 633314-14-4 USPATFULL
CN Oxirane, methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), tri-2-propenoate, block (9CI) (CA INDEX NAME)

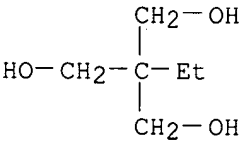
CM 1

CRN 79-10-7
CMF C3 H4 O2



CM 2

CRN 77-99-6
CMF C6 H14 O3

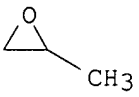


CM 3

CRN 106392-12-5
CMF (C3 H6 O . C2 H4 O)x
CCI PMS
CDES 8:PM,BLOCK

CM 4

CRN 75-56-9
CMF C3 H6 O



CM 5

CRN 75-21-8
CMF C2 H4 O

L66 ANSWER 2 OF 11 USPATFULL on STN
AN 2005:248552 USPATFULL
TI (Meth)acrylic esters of polyalkoxylated trimethylolpropane
IN Popp, Andreas, Birkenheide, GERMANY, FEDERAL REPUBLIC OF
Daniel, Thomas, Waldsee, GERMANY, FEDERAL REPUBLIC OF
Schroder, Jurgen, Ludwigshafen, GERMANY, FEDERAL REPUBLIC OF
Jaworek, Thomas, Kallstadt, GERMANY, FEDERAL REPUBLIC OF
Funk, Rudiger, Niedernhausen, GERMANY, FEDERAL REPUBLIC OF
Schwalm, Reinhold, Wachenheim, GERMANY, FEDERAL REPUBLIC OF
Weismantel, Matthias, Jossgrund-Oberndorf, GERMANY, FEDERAL REPUBLIC OF
Riegel, Ulrich, Frankfurt, GERMANY, FEDERAL REPUBLIC OF
PA BASF AKTIENGESELLSCHAFT a German Corporation, Ludwigshafen, GERMANY, FEDERAL REPUBLIC OF, D-67056 (non-U.S. corporation)
PI US 2005215752 A1 20050929
AI US 2003-517042 A1 20030606 (10)
WO 2003-EP5953 20030606
20041203 PCT 371 date
PRAI DE 2002-10225943 20020611 <--
DE 2003-10315345 20030403
DE 2003-10315669 20030404
DT Utility
FS APPLICATION
LREP MARSHALL, GERSTEIN & BORUN LLP, 233 S. WACKER DRIVE, SUITE 6300, SEARS TOWER, CHICAGO, IL, 60606, US
CLMN Number of Claims: 35
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 2223
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to novel (meth)acrylic esters of polyalkoxylated trimethylolpropane of the formula ##STR1## where AO is for each AO independently at each instance EO, PO or BO where EO is O--CH2-CH2- PO is independently at each instance O--CH2-CH(CH3)- or O--CH(CH3)-CH2- BO is independently at each instance O--CH2-CH(CH2-CH3)- or O--CH(CH2-CH3)-CH2- p1+p2+p3 is 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74 or 75, R1, R2 and R3 are independently H or CH3, a simplified process for preparing these esters and the use of reaction mixtures thus obtainable.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

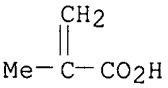
IT **150604-34-5P**
(acrylic esters of alkoxylated trimethylolpropane useful in production of hydrogels)

RN 150604-34-5 USPATFULL

CN Oxirane, methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), tris(2-methyl-2-propenoate), block (9CI) (CA INDEX NAME)

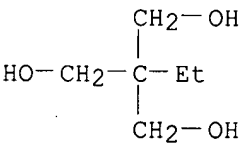
CM 1

CRN 79-41-4
CMF C4 H6 O2



CM 2

CRN 77-99-6
CMF C6 H14 O3

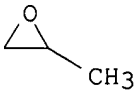


CM 3

CRN 106392-12-5
CMF (C3 H6 O . C2 H4 O)x
CCI PMS
CDES 8:PM,BLOCK

CM 4

CRN 75-56-9
CMF C3 H6 O



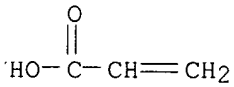
CM 5

CRN 75-21-8
CMF C2 H4 O

IT **633314-15-5P**
(acrylic esters of alkoxylated trimethylolpropane useful in production of hydrogels)
RN 633314-15-5 USPATFULL
CN 2-Propenoic acid, polymer with methyloxirane block polymer with oxirane ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) tri-2-propenoate, and sodium 2-propenoate (9CI) (CA INDEX NAME)

CM 1

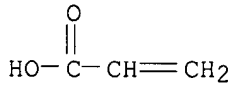
CRN 7446-81-3
CMF C3 H4 O2 . Na



● Na

CM 2

CRN 79-10-7
CMF C3 H4 O2

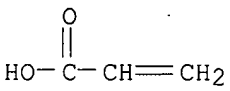


CM 3

CRN 633314-14-4
CMF C6 H14 O3 . 3 (C3 H6 O . C2 H4 O)x . 3 C3 H4 O2
CDES 8:GD,ESTER,ETHER

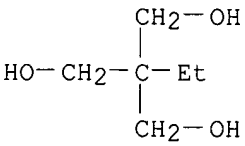
CM 4

CRN 79-10-7
CMF C3 H4 O2



CM 5

CRN 77-99-6
CMF C6 H14 O3

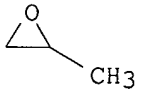


CM 6

CRN 106392-12-5
CMF (C3 H6 O . C2 H4 O)x
CCI PMS
CDES 8:PM,BLOCK

CM 7

CRN 75-56-9
CMF C3 H6 O



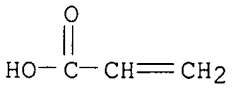
CM 8

CRN 75-21-8
CMF C2 H4 O

IT **633314-14-4P**
(acrylic esters of alkoxylated trimethylolpropane useful in production of hydrogels)
RN 633314-14-4 USPATFULL
CN Oxirane, methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), tri-2-propenoate, block (9CI) (CA INDEX NAME)

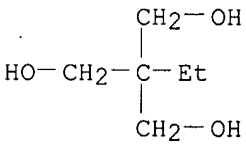
CM 1

CRN 79-10-7
CMF C3 H4 O2



CM 2

CRN 77-99-6
CMF C6 H14 O3

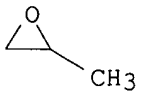


CM 3

CRN 106392-12-5
CMF (C3 H6 O . C2 H4 O)x
CCI PMS
CDES 8:PM,BLOCK

CM 4

CRN 75-56-9
CMF C3 H6 O



CM 5

CRN 75-21-8
CMF C2 H4 O

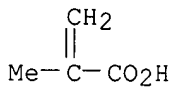
L66 ANSWER 3 OF 11 USPATFULL on STN
AN 2005:203484 USPATFULL
TI Method for the production of esters of polyalcohols

IN Jaworek, Thomas, Kallstadt, GERMANY, FEDERAL REPUBLIC OF
Daniel, Thomas, Waldsee, GERMANY, FEDERAL REPUBLIC OF
Wolf, Lothar, Torno, GERMANY, FEDERAL REPUBLIC OF
Koniger, Rainer, Mannheim, GERMANY, FEDERAL REPUBLIC OF
Schwalm, Reinhold, Wachenheim, GERMANY, FEDERAL REPUBLIC OF
Hartmann, Gabriele, Hockenheim, GERMANY, FEDERAL REPUBLIC OF
Wickel, Stefan, Bissersheim, GERMANY, FEDERAL REPUBLIC OF
PA BASF Aktiengesellschaft, Ludwigshafen, GERMANY, FEDERAL REPUBLIC OF, 67056 (non-U.S. corporation)
PI US 2005176910 A1 20050811
AI US 2003-514569 A1 20030606 (10)
WO 2003-EP5940 20030606
PRAI DE 2002-10225943 20020611 <--
DT Utility
FS APPLICATION
LREP OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C., 1940 DUKE STREET, ALEXANDRIA, VA, 22314, US
CLMN Number of Claims: 29
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 2418
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Unsaturated acids are esterified with polyalcohols. The resulting reaction mixtures have utility.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT **150604-34-5P**
(acrylic esters of alkoxylated trimethylolpropane useful in production of hydrogels)
RN 150604-34-5 USPATFULL
CN Oxirane, methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), tris(2-methyl-2-propenoate), block (9CI) (CA INDEX NAME)

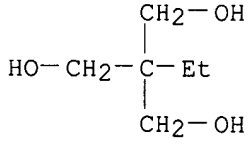
CM 1

CRN 79-41-4
CMF C4 H6 O2



CM 2

CRN 77-99-6
CMF C6 H14 O3

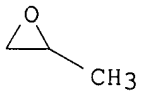


CM 3

CRN 106392-12-5
CMF (C3 H6 O . C2 H4 O)x
CCI PMS
CDES 8:PM,BLOCK

CM 4

CRN 75-56-9
CMF C3 H6 O



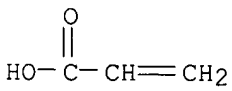
CM 5

CRN 75-21-8
CMF C2 H4 O

IT **633314-15-5P**
(acrylic esters of alkoxylated trimethylolpropane useful in production of hydrogels)
RN 633314-15-5 USPATFULL
CN 2-Propenoic acid, polymer with methyloxirane block polymer with oxirane ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) tri-2-propenoate, and sodium 2-propenoate (9CI) (CA INDEX NAME)

CM 1

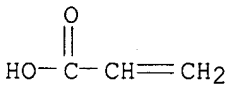
CRN 7446-81-3
CMF C3 H4 O2 . Na



● Na

CM 2

CRN 79-10-7
CMF C3 H4 O2

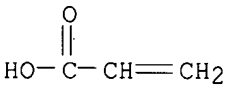


CM 3

CRN 633314-14-4
CMF C6 H14 O3 . 3 (C3 H6 O . C2 H4 O)x . 3 C3 H4 O2
CDES 8:GD,ESTER,ETHER

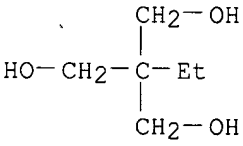
CM 4

CRN 79-10-7
CMF C3 H4 O2



CM 5

CRN 77-99-6
CMF C6 H14 O3

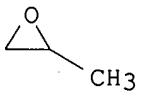


CM 6

CRN 106392-12-5
CMF (C3 H6 O . C2 H4 O)x
CCI PMS
CDES 8:PM,BLOCK

CM 7

CRN 75-56-9
CMF C3 H6 O



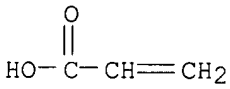
CM 8

CRN 75-21-8
CMF C2 H4 O

IT **633314-14-4P**
(acrylic esters of alkoxylated trimethylolpropane useful in production of hydrogels)
RN 633314-14-4 USPATFULL
CN Oxirane, methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), tri-2-propenoate, block (9CI) (CA INDEX NAME)

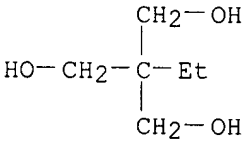
CM 1

CRN 79-10-7
CMF C3 H4 O2



CM 2

CRN 77-99-6
CMF C6 H14 O3

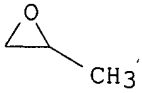


CM 3

CRN 106392-12-5
CMF (C3 H6 O . C2 H4 O)x
CCI PMS
CDES 8:PM,BLOCK

CM 4

CRN 75-56-9
CMF C3 H6 O



CM 5

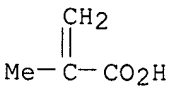
CRN 75-21-8
CMF C2 H4 O

L66 ANSWER 4 OF 11 USPATFULL on STN
AN 2005:190290 USPATFULL
TI (Meth)acrylic esters of polyalkoxylated glycerine
IN Popp, Andreas A, Birkenheide, GERMANY, FEDERAL REPUBLIC OF
Daniel, Thomas, Waldsee, GERMANY, FEDERAL REPUBLIC OF
Schroder, Jurgen, Ludwigshafen, GERMANY, FEDERAL REPUBLIC OF
Kaworek, Thomas, Kallstadt, GERMANY, FEDERAL REPUBLIC OF
Funk, Rudiger, Niedernhausen, GERMANY, FEDERAL REPUBLIC OF
Schwalm, Reinhold, Wachenheim, GERMANY, FEDERAL REPUBLIC OF
Weismantel, Matthias, Jossgrund-Oberndorf, GERMANY, FEDERAL REPUBLIC OF
Riegel, Ulrich, Frankfurt, GERMANY, FEDERAL REPUBLIC OF
PI US 2005165208 A1 20050728
AI US 2003-516702 A1 20030610 (10)
WO 2003-EP6028 20030610
PRAI DE 2002-10225943 20020611 <--
DE 2003-10319462 20030429
DT Utility
FS APPLICATION
LREP MARSHALL, GERSTEIN & BORUN LLP, 233 S. WACKER DRIVE, SUITE 6300, SEARS TOWER, CHICAGO, IL, 60606, US
CLMN Number of Claims: 34
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 2151
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention relates to novel (meth)acrylic esters of polyalkoxylated glycerol, a simplified process for preparing these esters and the use of reaction mixtures thus obtainable.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT **150604-34-5P**
(acrylic esters of alkoxylated trimethylolpropane useful in production of hydrogels)
RN 150604-34-5 USPATFULL
CN Oxirane, methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), tris(2-methyl-2-propenoate), block (9CI) (CA INDEX NAME)

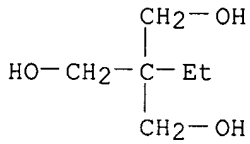
CM 1

CRN 79-41-4
CMF C4 H6 O2



CM 2

CRN 77-99-6
CMF C6 H14 O3

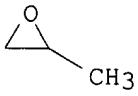


CM 3

CRN 106392-12-5
CMF (C3 H6 O . C2 H4 O)x
CCI PMS
CDES 8:PM,BLOCK

CM 4

CRN 75-56-9
CMF C3 H6 O



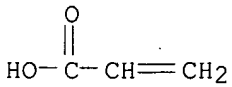
CM 5

CRN 75-21-8
CMF C2 H4 O

IT **633314-15-5P**
(acrylic esters of alkoxylated trimethylolpropane useful in production of hydrogels)
RN 633314-15-5 USPATFULL
CN 2-Propenoic acid, polymer with methyloxirane block polymer with oxirane ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) tri-2-propenoate, and sodium 2-propenoate (9CI) (CA INDEX NAME)

CM 1

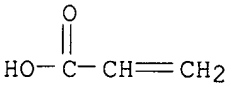
CRN 7446-81-3
CMF C3 H4 O2 . Na



● Na

CM 2

CRN 79-10-7
CMF C3 H4 O2

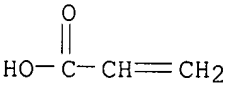


CM 3

CRN 633314-14-4
CMF C6 H14 O3 . 3 (C3 H6 O . C2 H4 O)x . 3 C3 H4 O2
CDES 8:GD,ESTER,ETHER

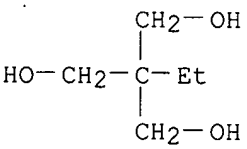
CM 4

CRN 79-10-7
CMF C3 H4 O2



CM 5

CRN 77-99-6
CMF C6 H14 O3



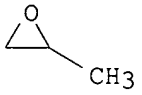
CM 6

CRN 106392-12-5
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CDES 8:PM,BLOCK

CM 7

CRN 75-56-9
CMF C3 H6 O



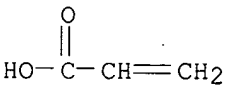
CM 8

CRN 75-21-8
CMF C2 H4 O

IT **633314-14-4P**
(acrylic esters of alkoxylated trimethylolpropane useful in production of hydrogels)
RN 633314-14-4 USPATFULL
CN Oxirane, methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), tri-2-propenoate, block (9CI) (CA INDEX NAME)

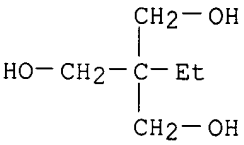
CM 1

CRN 79-10-7
CMF C3 H4 O2



CM 2

CRN 77-99-6
CMF C6 H14 O3

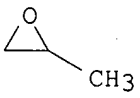


CM 3

CRN 106392-12-5
CMF (C3 H6 O . C2 H4 O)x
CCI PMS
CDES 8:PM,BLOCK

CM 4

CRN 75-56-9
CMF C3 H6 O



CM 5

CRN 75-21-8
CMF C2 H4 O

L66 ANSWER 5 OF 11 USPATFULL on STN
AN 1998:119210 USPATFULL
TI Continuous process for the preparation of highly stable, finely divided, low viscosity polymer polyols of small average particle size
IN Kratz, Mark R., Krefeld, Germany, Federal Republic of
Dietrich, Manfred, Leverkusen, Germany, Federal Republic of
Heinemann, Torsten, Koln, Germany, Federal Republic of
Jacobs, Gundolf, Rosrath, Germany, Federal Republic of
Sanders, Josef, Leverkusen, Germany, Federal Republic of
Woynar, Helmut, Dormagen, Germany, Federal Republic of
PA Bayer Aktiengesellschaft, Leverkusen, Germany, Federal Republic of (non-U.S. corporation)
PI US 5814699 19980929 <--
AI US 1996-723659 19961003 (8) <--
PRAI EP 95115940 19951010 <--
DT Utility
FS Granted
EXNAM Primary Examiner: Zemel, Irina S.
LREP Gil, Joseph C., Brown, N. Denise
CLMN Number of Claims: 17
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 1275
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A continuous process for the preparation of highly stable, finely divided, low viscosity polymer polyols of small average particle size wherein in the first step an intermediate is prepared by reacting (1) a mixture of at least two ethylenically unsaturated monomers, preferably styrene and acrylonitrile, in a mixture comprising (2) a base polyol and (3) a macromer in the presence of (4) a free radical initiator, (5) a solvent having moderate chain transfer activity, and, optionally, (6) a reaction moderator at a temperature of at least 100° C., such

that the intermediate contains at least about 12% by weight of macromer, based on the weight of the base polyol and macromer, and a solids content of at least about 15% by weight and less than about 30% by weight, based on the weight of the base polyol, macromer and ethylenically unsaturated monomers. The intermediate, which functions as a seed for further polymerization, is then further reacted, in one or more stirred-tank reactors in series, in a mixture of at least two ethylenically unsaturated monomers, preferably styrene and acrylonitrile, in a base polyol and, optionally, a macromer, in the presence of solvent, initiator and a reaction moderator which are distributed among the remaining reactors.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT **118800-30-9P**

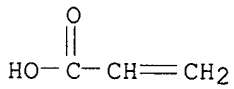
(macromer; continuous manufacture of highly stable, finely divided, low viscosity polymer polyols of small average particle size from macromers for polyurethane foams)

RN 118800-30-9 USPATFULL

CN Oxirane, methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), 2-propenoate (9CI) (CA INDEX NAME)

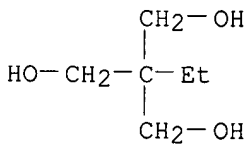
CM 1

CRN 79-10-7
CMF C3 H4 O2



CM 2

CRN 77-99-6
CMF C6 H14 O3

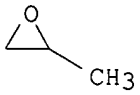


CM 3

CRN 9003-11-6
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 4

CRN 75-56-9
CMF C3 H6 O



CM 5

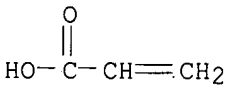
CRN 75-21-8
CMF C2 H4 O

L66 ANSWER 6 OF 11 USPATFULL on STN
AN 1998:75318 USPATFULL
TI Non-aqueous electrolyte secondary battery
IN Matsui, Tooru, Fujiidera, Japan
Takeyama, Kenichi, Osaka, Japan
PA Matsushita Electric Industrial Co., Ltd., Osaka-fu, Japan (non-U.S. corporation)
PI US 5773166 19980630 <--
AI US 1996-756778 19961126 (8) <--
PRAI JP 1995-309381 19951128 <--
DT Utility
FS Granted
EXNAM Primary Examiner: Bell, Bruce F.
LREP Panitch Schwarze Jacobs & Nadel, P.C.
CLMN Number of Claims: 3
ECL Exemplary Claim: 1
DRWN 3 Drawing Figure(s); 3 Drawing Page(s)
LN.CNT 404
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A non-aqueous electrolyte secondary battery employs a negative electrode which contains an alkali metal as an active material, and is provided with a polymer film thereon, the polymer film being provided with a gel electrolyte thereon. The polymer film is made of a polymeric monomer which has [molecular weight/terminal polymer functional group number] of 500 or less, and a structure represented by one of the formulas (1)-(4): ##STR1## wherein EO refers to CH.sub.2 CH.sub.2 O, PO refers to CH.sub.2 (CH.sub.3)CHO, (EO.sub.m PO.sub.n) indicates one of random polymerization and block polymerization, and wherein m and n do not represent 0 at the same time where 0≤m and 0≤n.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT **117989-76-1**
(flat non-aqueous electrolyte secondary alkali metal battery with polymer coated anode)
RN 117989-76-1 USPATFULL
CN Oxirane, methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), tri-2-propenoate (9CI) (CA INDEX NAME)

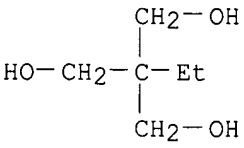
CM 1

CRN 79-10-7
CMF C3 H4 O2



CM 2

CRN 77-99-6
CMF C6 H14 O3

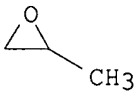


CM 3

CRN 9003-11-6
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 4

CRN 75-56-9
CMF C3 H6 O



CM 5

CRN 75-21-8
CMF C2 H4 O

L66 ANSWER 7 OF 11 USPATFULL on STN
AN 96:82734 USPATFULL
TI Low viscosity polymer polyols a process for their production as well as the manufacture of polyurethane from materials
IN Sanders, Josef, Leverkusen, Germany, Federal Republic of
Kratz, Mark, Krefeld, Germany, Federal Republic of
Dietrich, Manfred, Leverkusen, Germany, Federal Republic of
Heinemann, Torsten, K oln, Germany, Federal Republic of
Woynar, Helmut, Dormagen, Germany, Federal Republic of

Jacobs, Gundolf, R osrath, Germany, Federal Republic of
Scholz, Uwe, K oln, Germany, Federal Republic of
PA Bayer Adtiengesellschaft, Leverkusen, Germany, Federal Republic of
(non-U.S. corporation)
PI US 5554662 19960910 <--
AI US 1995-470695 19950606 (8) <--
PRAI DE 1995-19508578 19950310 <--
DT Utility
FS Granted
EXNAM Primary Examiner: Foelak, Morton
LREP Gil, Joseph C., Brown, N. Denise
CLMN Number of Claims: 15
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 852
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A process for the production of stable, agglomerate-free, low viscosity graft copolymer dispersions through radical polymerization of ethylenically unsaturated monomers in the presence of a base polyol, a macromer, an enol ether of a specific formula, and optionally, an organic solvent. These enol ethers correspond to the general formula:

A=CH--O--R

wherein:

A represents a di-valent residue of the formula ##STR1## R represents an aliphatic hydrocarbon radical having 1 to 18 carbon atoms, a cycloaliphatic hydrocarbon radical having 5 to 10 carbon atoms, or a substituted or unsubstituted benzyl radical;

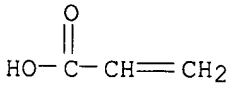
and

R' represents a hydrogen atom or an aliphatic hydrocarbon radical having 1 to 8 carbon atoms.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT **118800-30-9P**
(low viscosity polymer polyols, a process for their production, and manufacture
of polyurethane from materials)
RN 118800-30-9 USPATFULL
CN Oxirane, methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), 2-propenoate (9CI) (CA INDEX NAME)

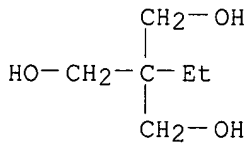
CM 1

CRN 79-10-7
CMF C3 H4 O2



CM 2

CRN 77-99-6
CMF C6 H14 O3

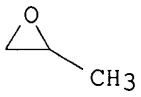


CM 3

CRN 9003-11-6
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 4

CRN 75-56-9
CMF C3 H6 O



CM 5

CRN 75-21-8
CMF C2 H4 O

L66 ANSWER 8 OF 11 USPATFULL on STN
AN 95:67083 USPATFULL
TI Galvanic cell
IN Kono, Michiyuki, Neyagawa, Japan
Mori, Shigeo, Kyoto, Japan
Takeda, Kazunari, Takatsuki, Japan
Izuti, Shyuiti, Shiga, Japan
PA Dai-Ichi Kogyo Seigaku Co., Ltd., Kyoto, Japan (non-U.S. corporation)
PI US 5436090 19950725 <--
WO 9314529 19930722 <--
AI US 1993-119214 19930921 (8) <--
WO 1993-JP64 19930120 <--
19930921 PCT 371 date
19930921 PCT 102(e) date
PRAI JP 1992-31451 19920121 <--
DT Utility
FS Granted
EXNAM Primary Examiner: Skapars, Anthony
LREP Morgan & Finnegan

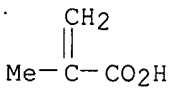
CLMN Number of Claims: 11
ECL Exemplary Claim: 1
DRWN 5 Drawing Figure(s); 3 Drawing Page(s)
LN.CNT 861
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A cell is obtained with use of a solid electrolyte prepared by dissolving a trifunctional terminal acryloyl-modified alkylene oxide polymer having a polymer chain represented by the following formula (1) and an electrolyte salt in a solvent, and then by crosslinking it by a radioactive ray irradiation and/or by heating. The solvent is used in a ratio of 220 to 950 weight % based on the above polymer. ##STR1## (R' is an alkyl group having 1 to 6 carbon atoms, R" is hydrogen or methyl group, and m and n are respectively 0 or an integer of at least 1 and $m+n \geq 35$.)

In a typical galvanic cell, a solid electrolyte combined with a positive electrode active material, which is obtained by mixing said trifunctional terminal acryloyl-modified alkylene oxide polymer with the electrolyte salt, the solvent and the positive electrode active material and crosslinking it by radioactive ray irradiation and/or heating, is used as a composite positive electrode and, between the positive electrode and a negative electrode, an electrode prepared by crosslinking a mixture of said trifunctional terminal acryloyl-modified alkylene oxide polymer, the electrolyte salt, the solvent and the positive electrode active material by radioactive ray irradiation and/or by heating is placed as a separator.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT **150604-34-5**
(crosslinked, electrolyte containing lithium salts and solvents and, for batteries)
RN 150604-34-5 USPATFULL
CN Oxirane, methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), tris(2-methyl-2-propenoate), block (9CI) (CA INDEX NAME)

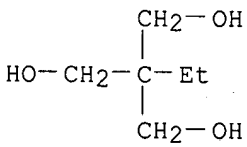
CM 1

CRN 79-41-4
CMF C4 H6 O2



CM 2

CRN 77-99-6
CMF C6 H14 O3

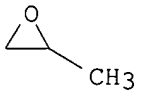


CM 3

CRN 106392-12-5
CMF (C3 H6 O . C2 H4 O)x
CCI PMS
CDES 8:PM,BLOCK

CM 4

CRN 75-56-9
CMF C3 H6 O



CM 5

CRN 75-21-8
CMF C2 H4 O

L66 ANSWER 9 OF 11 USPATFULL on STN
AN 94:90914 USPATFULL
TI Crosslinking curable resin composition
IN Kushi, Kenji, Otake, Japan
Inukai, Ken-ichi, Otake, Japan
Iseki, Takayuki, Otake, Japan
Koyanagi, Seiya, Otake, Japan
PA Mitsubishi Rayon Co., Ltd., Tokyo, Japan (non-U.S. corporation)
PI US 5356754 19941018 <--
AI US 1992-950500 19920925 (7) <--
DT Utility
FS Granted
EXNAM Primary Examiner: Brammer, Jack P.
LREP Oblon, Spivak, McClelland, Maier & Neustadt
CLMN Number of Claims: 5
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 1086
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A photopolymerizable or radiation polymerizable alkaline developing crosslinking curable resin composition possessing superior antiplating properties and a short stripping period, in which the stripped plate is not easily dissolved in the stripping fluid, and which is comprising:

(a) 5-30 parts by weight of at least one compound possessing in one molecule on the average 1.5 or more (meth)acryloyloxy groups, which is obtained by reacting (meth)acrylic acid with a reaction product formed by adding, to a polyatomic alcohol possessing 3 or more OH groups in one

molecule, an alkylene oxide containing propylene oxide in an amount of 67% molar or greater in an amount of 5-12 moles per mole of OH group in the aforementioned polyatomic alcohol,

(b) 5-30 parts by weight of at least one crosslinkable monomer other than that stated above in (a) , possessing in one molecule 2 or more ethylenically unsaturated groups,

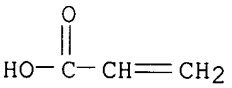
(c) 45-75 parts by weight of a thermoplastic polymer for use as a binder, the thermoplastic polymer in turn being formed of 15-35 wt % of at least one α, β-unsaturated carboxyl group containing a monomer having 3-15 carbon atoms, and 65-85 wt % of another copolymerizable monomer, and

(d) 0-10 parts by weight of a photopolymerization initiator.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT **118800-30-9P**
(crosslinking curable resin composition)
RN 118800-30-9 USPATFULL
CN Oxirane, methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), 2-propenoate (9CI) (CA INDEX NAME)

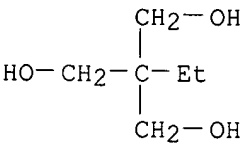
CM 1

CRN 79-10-7
CMF C3 H4 O2



CM 2

CRN 77-99-6
CMF C6 H14 O3

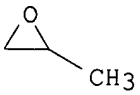


CM 3

CRN 9003-11-6
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 4

CRN 75-56-9
CMF C3 H6 O



CM 5

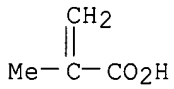
CRN 75-21-8
CMF C2 H4 O

L66 ANSWER 10 OF 11 USPATFULL on STN
AN 94:90717 USPATFULL
TI Solid electrolyte
IN Kono, Michiyuki, Neyagawa, Japan
Motogami, Kenji, Takatsuki, Japan
Mori, Shigeo, Kyoto, Japan
PA Dai-Ichi Kogyo Seiyaku Co., Ltd., Kyoto, Japan (non-U.S. corporation)
PI US 5356553 19941018 <--
AI US 1992-957258 19921006 (7) <--
PRAI JP 1991-3296173 19911015 <--
DT Utility
FS Granted
EXNAM Primary Examiner: Willis, Jr., Prince; Assistant Examiner: Diamond, Alan D.
LREP Morgan & Finnegan
CLMN Number of Claims: 3
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 483
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A solid electrolyte is prepared by dissolving a solvent and an electrolyte salt in a trifunctional polymer and crosslinking it by an irradiation of an active radiation and/or heating, characterized by that said trifunctional polymer is a trifunctional terminal acryloyl-modified alkylene oxide polymer containing a polymer chain expressed by the following general formula (I) as each functional chain; ##STR1## in which R' is a lower alkyl group, R" is hydrogen or methyl group and m or n is 0 or an integer of at least 1 and m+n≥35, and the amount of said solvent is 220 to 950 weight % based on said trifunctional terminal acryloyl-modified alkylene oxide polymer.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT **115165-81-6P 118800-30-9P**
(preparation of, for electrolytes)
RN 115165-81-6 USPATFULL
CN Oxirane, methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), 2-methyl-2-propenoate, block (9CI) (CA INDEX NAME)

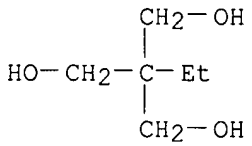
CM 1

CRN 79-41-4
CMF C4 H6 O2



CM 2

CRN 77-99-6
CMF C6 H14 O3

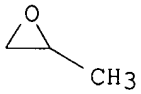


CM 3

CRN 106392-12-5
CMF (C3 H6 O . C2 H4 O)x
CCI PMS
CDES 8:PM,BLOCK

CM 4

CRN 75-56-9
CMF C3 H6 O



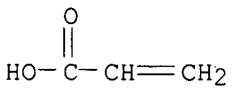
CM 5

CRN 75-21-8
CMF C2 H4 O

RN 118800-30-9 USPATFULL
CN Oxirane, methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), 2-propenoate (9CI) (CA INDEX NAME)

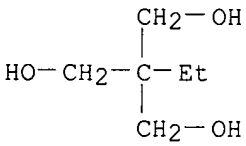
CM 1

CRN 79-10-7
CMF C3 H4 O2



CM 2

CRN 77-99-6
CMF C6 H14 O3

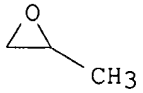


CM 3

CRN 9003-11-6
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 4

CRN 75-56-9
CMF C3 H6 O



CM 5

CRN 75-21-8
CMF C2 H4 O

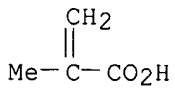
L66 ANSWER 11 OF 11 USPATFULL on STN
AN 80:28122 USPATFULL
TI Stable suspensions of inorganic fillers in organic polyhydroxyl compounds
IN von Bonin, Wulf, Leverkusen, Germany, Federal Republic of
PA Bayer Aktiengesellschaft, Leverkusen, Germany, Federal Republic of (non-U.S. corporation)

PI US 4207227 19800610 <--
AI US 1977-856075 19771130 (5) <--
PRAI DE 1976-2654746 19761203 <--
DE 1977-2714291 19770331 <--
DT Utility
FS Granted
EXNAM Primary Examiner: Griffin, Ronald W.
LREP Harsh, Gene, Gil, Joseph C., Olson, R. Brent
CLMN Number of Claims: 23
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 947
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The instant invention relates to a process for the preparation of stable suspensions of inorganic fillers in polyhydroxyl compounds, which are suitable for the preparation of polyurethanes, to the suspensions obtainable by this process and to their use for the preparation of polyurethanes. The suspensions are produced by grafting an olefinically unsaturated carboxylic acid (and optionally other olefinically unsaturated monomers) onto polyols. The presence of from 0.005 to 15% by weight of carboxyl groups in the polyol allows for the production of stable dispersion of inorganic fillers in polyols.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT **67183-99-7 67184-01-4**
(graft, for stabilization of polyol-filler suspensions for polyurethane manufacture)
RN 67183-99-7 USPATFULL
CN 2-Propenoic acid, 2-methyl-, polymer with methyloxirane polymer with oxirane ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) and 2-propenoic acid (9CI) (CA INDEX NAME)

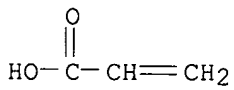
CM 1

CRN 79-41-4
CMF C4 H6 O2



CM 2

CRN 79-10-7
CMF C3 H4 O2



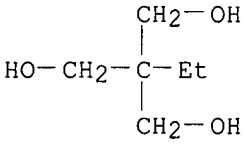
CM 3

CRN 52624-57-4
CMF C6 H14 O3 . 3 (C3 H6 O . C2 H4 O)x

CDES 8:GD,ETHER

CM 4

CRN 77-99-6
CMF C6 H14 O3

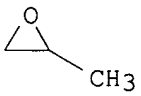


CM 5

CRN 9003-11-6
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 6

CRN 75-56-9
CMF C3 H6 O



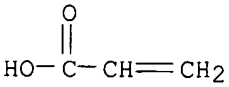
CM 7

CRN 75-21-8
CMF C2 H4 O

RN 67184-01-4 USPATFULL
CN 2-Propenoic acid, polymer with methyloxirane polymer with oxirane ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) (9CI) (CA INDEX NAME)

CM 1

CRN 79-10-7
CMF C3 H4 O2

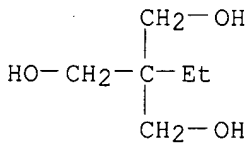


CM 2

CRN 52624-57-4
CMF C6 H14 O3 . 3 (C3 H6 O . C2 H4 O)x
CDES 8:GD,ETHER

CM 3

CRN 77-99-6
CMF C6 H14 O3

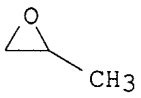


CM 4

CRN 9003-11-6
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 5

CRN 75-56-9
CMF C3 H6 O



CM 6

CRN 75-21-8
CMF C2 H4 O

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USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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FILE COVERS 1907 - 12 Dec 2006 VOL 145 ISS 25
FILE LAST UPDATED: 11 Dec 2006 (20061211/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L72 ANSWER 1 OF 22 HCAPLUS COPYRIGHT 2006 ACS on STN
AN 2004:857643 HCAPLUS
DN 141:350865
TI Mixtures of polyalkoxylated trimethylolpropane (meth)acrylates for crosslinked hydrogel manufacturing.
IN **Popp, Andreas; Daniel, Thomas; Schroeder, Juergen; Jaworek, Thomas; Funk, Ruediger; Schwalm, Reinhold; Weismantel, Matthias; Riegel, Ulrich**
PA **BASF Aktiengesellschaft, Germany**
SO PCT Int. Appl., 61 pp.
CODEN: PIXXD2
DT **Patent**
LA German
FAN.CNT 8

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OS MARPAT 141:350865
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

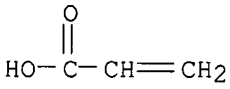
AB A mixture of ≥2 polyalkoxylated trimethylolpropane (meth)acrylates I, II, III (AO1, AO2 and AO3 = EO, PO or/and BO, EO = OCH2CH2, PO = OCH2CHCH3 or OCH(CH3)CH2, BO = OCH2CHEt or OCH(Et)CH2, p1 + p2 + p3 = 28 - 75, n1 + n2 + n3 = 28 - 60, m1 + m2 + m3 = 4 - 13, R1, R2 and R3 = H or CH3) prepared by reacting a mixture of alkoxylated trimethylolpropanes with (meth)acrylic acid in the presence of ≥1 esterification catalyst and ≥1 polymerization inhibitor is used as crosslinking agent for manufacture of a swellable crosslinked hydrogel (superabsorbing polymer), as raw material for paints, as additives to cement and for polymer dispersion and polyacrylates manufacture Hydrogel manufacture comprises steps of (a) radical polymerization of an ester mixture with (meth)acrylic acid optionally in the presence of monoethylenically unsatd. compds., hydrophilic monomers (such as sodium acrylate) and radical initiators, (b) drying and (c) milling of the resulting mixture This, mixing 1427 weight parts of ethoxylated and propoxylated trimethylolpropane, 216 weight parts of acrylic acid, 5 weight parts of H2SO4 in 345 weight parts of methylcyclohexane, adding 3 weight parts of hydroquinone monomethyl ether, 1 weight part of triphenylphosphite, 1 weight part of hypophosphoric acid gave (after removing an azeotropic water) a polymer having viscosity 330 mPa s, used as a crosslinking agent for acrylic acid and sodium acrylate for swellable hydrogel manufacturing

IT **824950-59-6P**
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(crosslinked hydrogel; mixture of polyalkoxylated trimethylolpropane (meth)acrylates for swellable crosslinked hydrogel (superabsorbing polymer) manufacture)

RN 824950-59-6 HCAPLUS
CN 2-Propenoic acid, polymer with methyloxirane diblock polymer with oxirane ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) tri-2-propenoate, and sodium 2-propenoate (9CI) (CA INDEX NAME)

CM 1

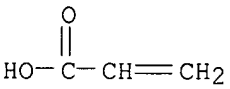
CRN 7446-81-3
CMF C3 H4 O2 . Na



● Na

CM 2

CRN 79-10-7
CMF C3 H4 O2

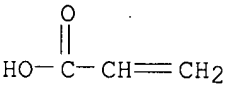


CM 3

CRN 824950-31-4
CMF C6 H14 O3 . 3 (C3 H6 O . C2 H4 O)x . 3 C3 H4 O2

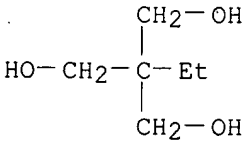
CM 4

CRN 79-10-7
CMF C3 H4 O2



CM 5

CRN 77-99-6
CMF C6 H14 O3

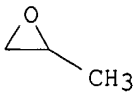


CM 6

CRN 697765-47-2
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 7

CRN 75-56-9
CMF C3 H6 O



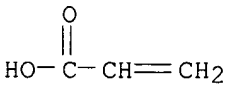
CM 8

CRN 75-21-8
CMF C2 H4 O

IT **824950-31-4P**
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(polyalkoxylated trimethylolpropane (meth)acrylates; mixture of polyalkoxylated trimethylolpropane (meth)acrylates for swellable crosslinked hydrogel (superabsorbing polymer) manufacture)
RN 824950-31-4 HCAPLUS
CN Oxirane, methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), tri-2-propenoate, diblock (9CI) (CA INDEX NAME)

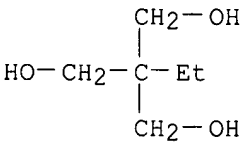
CM 1

CRN 79-10-7
CMF C3 H4 O2



CM 2

CRN 77-99-6
CMF C6 H14 O3

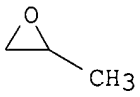


CM 3

CRN 697765-47-2
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 4

CRN 75-56-9
CMF C3 H6 O



CM 5

CRN 75-21-8
CMF C2 H4 O

L72 ANSWER 2 OF 22 HCAPLUS COPYRIGHT 2006 ACS on STN
AN 2004:857543 HCAPLUS
DN 141:350828
TI Mixtures of at least two (meth)acrylates having at least two double bonds for manufacture of hydrogels
IN **Riegel, Ulrich**; **Daniel, Thomas**; Hermeling, Dieter; Elliott, Mark; **Schwalm, Reinhold**
PA **BASF Aktiengesellschaft, Germany**
SO PCT Int. Appl., 84 pp.
CODEN: PIXXD2
DT **Patent**
LA German
FAN.CNT 8

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2004087635	A2	20041014	WO 2004-EP3348	20040330
WO 2004087635	A3	20041216		

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WO 2003104300	A1	20031218	WO 2003-EP305953	20030606 <--

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DE 10358372 A1 20041014 DE 2003-10358372 20031211
EP 1613583 A2 20060111 EP 2004-724254 20040330
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BR 2004008969 A 20060404 BR 2004-8969 20040330
JP 2006522047 T2 20060928 JP 2006-504915 20040330
US 2006235141 A1 20061019 US 2005-551605 20050930

PRAI DE 2003-10315336 A 20030403
DE 2003-10315345 A 20030403
DE 2003-10315669 A 20030404
DE 2003-10319462 A 20030429
WO 2003-EP5953 A 20030606
WO 2003-EP6028 A 20030610
WO 2003-EP6054 A 20030610
DE 2003-10358372 A 20031211
DE 2002-10225943 A 20020611 <--
WO 2004-EP3348 W 20040330

OS MARPAT 141:350828

AB Title mixts. for use as crosslinkers in the manufacture of superabsorbent hydrogels with high hydrolysis resistance and particle formation during manufacture have GFV 200-600 g/mol double bonds, with GFV = $\Sigma ni=1$ = $\alpha iMWi/Zi$ [$\Sigma ni=1\alpha i$ = 1, αi = mol fraction of compound (i) in the mixture, n [number of compds. in mixture] ≥ 2, Zi = number of double bonds in compound (i), MWi = mol. weight of compound (i)]. A typical hydrogel was manufactured by radical polymerization of 220 g acrylic acid, 2201 g 37.3% aqueous Na acrylate solution, and 5.1 g mixture containing 69.3% 30:5 ethylene oxide-propylene oxide copolymer trimethylolpropane ether triacrylate and 30.7% Laromer TPGDA.

IT **117989-76-1P**
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

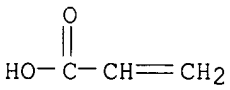
(crosslinker; mixts. of at least two (meth)acrylates having at least two double bonds for crosslinkers for manufacture of hydrogels)

RN 117989-76-1 HCAPLUS

CN Oxirane, methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), tri-2-propenoate (9CI) (CA INDEX NAME)

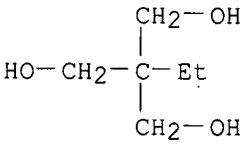
CM 1

CRN 79-10-7
CMF C3 H4 O2



CM 2

CRN 77-99-6
CMF C6 H14 O3

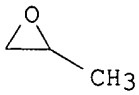


CM 3

CRN 9003-11-6
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 4

CRN 75-56-9
CMF C3 H6 O



CM 5

CRN 75-21-8
CMF C2 H4 O

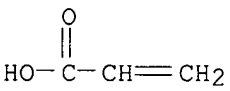
IT **774577-49-0P**, Acrylic acid-ethylene oxide-propylene oxide copolymer trimethylolpropane ether triacrylate-sodium acrylate copolymer
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(mixts. of at least two (meth)acrylates having at least two double bonds for crosslinkers for manufacture of hydrogels)

RN 774577-49-0 HCAPLUS

CN 2-Propenoic acid, polymer with methyloxirane polymer with oxirane ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) tri-2-propenoate, and sodium 2-propenoate (9CI) (CA INDEX NAME)

CM 1

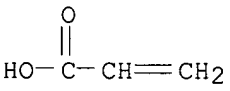
CRN 7446-81-3
CMF C3 H4 O2 . Na



● Na

CM 2

CRN 79-10-7
CMF C3 H4 O2

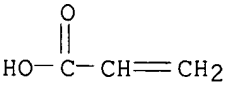


CM 3

CRN 117989-76-1
CMF C6 H14 O3 . 3 (C3 H6 O . C2 H4 O)x . 3 C3 H4 O2

CM 4

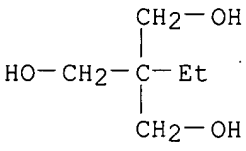
CRN 79-10-7
CMF C3 H4 O2



CM 5

CRN 77-99-6

CMF C6 H14 O3

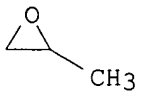


CM 6

CRN 9003-11-6
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 7

CRN 75-56-9
CMF C3 H6 O



CM 8

CRN 75-21-8
CMF C2 H4 O

L72 ANSWER 3 OF 22 HCAPLUS COPYRIGHT 2006 ACS on STN
AN 2004:20133 HCAPLUS
DN 140:102019
TI Photosensitive polymer compositions with good plating resistance and strippability and photosensitive elements containing them
IN Sawabe, Masaru; Ishimaru, Toshiaki
PA Hitachi Chemical Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 13 pp.
CODEN: JKXXAF
DT **Patent**
LA Japanese
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2004004635	A2	20040108	JP 2003-78279	20030320 <--
	JP 3795872	B2	20060712		
	JP 2002328469	A2	20021115	JP 2002-18913	19930215 <--
	JP 3437179	B2	20030818		
PRAI	JP 2002-18913	A3	19930215 <--		
	JP 1993-25691	A3	19930215 <--		

AB The compns., useful as plating resists for printed circuit boards, contain ethylenically unsatd. compds. having ≥3 unsatd. groups CH2:CR1CO(OR2)m(OR3)nO (R1 = H, Me; R2, R3 = ethylene, propylene; R2 ≠ R3; m, n ≥1). The photosensitive elements have the photosensitive polymer composition layers on support films.

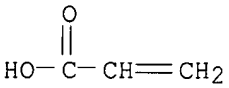
IT **117989-76-1 161278-82-6**
RL: TEM (Technical or engineered material use); USES (Uses)
(photosensitive polymer compns. containing ethoxy- and propoxy-containing unsatd. compds. with good strippability for plating resists)

RN 117989-76-1 HCAPLUS

CN Oxirane, methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), tri-2-propenoate (9CI) (CA INDEX NAME)

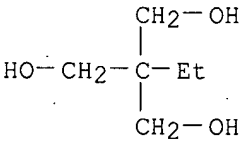
CM 1

CRN 79-10-7
CMF C3 H4 O2



CM 2

CRN 77-99-6
CMF C6 H14 O3

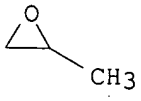


CM 3

CRN 9003-11-6
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 4

CRN 75-56-9
CMF C3 H6 O



CM 5

CRN 75-21-8
CMF C2 H4 O

RN 161278-82-6 HCAPLUS
CN Oxirane, methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), tris(2-methyl-2-propenoate) (9CI) (CA INDEX NAME)

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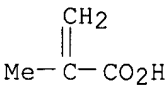
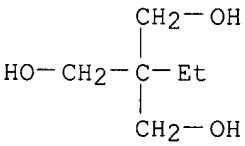
CRN 79-41-4
CMF C4 H6 O2



CM 2

CRN 77-99-6
CMF C6 H14 O3

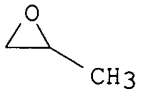


CM 3

CRN 9003-11-6
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 4

CRN 75-56-9
CMF C3 H6 O



CM 5

CRN 75-21-8

CMF C2 H4 O

L72 ANSWER 4 OF 22 HCAPLUS COPYRIGHT 2006 ACS on STN
AN 2003:991565 HCAPLUS
DN 140:43143
TI Acrylic esters of alkoxylated trimethylolpropane useful in production of hydrogels
IN **Popp, Andreas; Daniel, Thomas; Schroeder, Juergen; Jaworek, Thomas; Funk, Ruediger; Schwalm, Reinhold; Weismantel, Matthias; Riegel, Ulrich**
PA **BASF Aktiengesellschaft, Germany**
SO PCT Int. Appl., 65 pp.
CODEN: PIXXD2
DT **Patent**
LA German
FAN.CNT 8

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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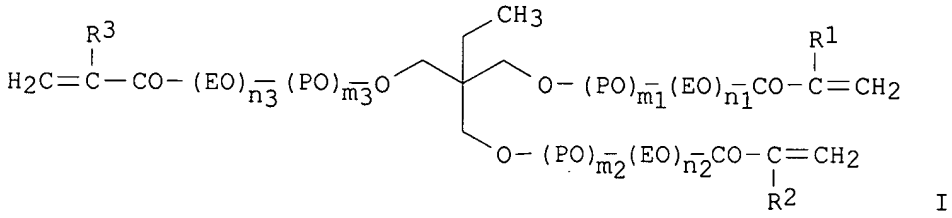

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AB Acrylic and/or methacrylic esters of alkoxylated trimethylolpropane have the general formula (I), where EO is -OCH2CH2-, PO independently represents -OCH2CH(CH3)- or -OCH(CH3)CH2-; n1, n2, n3 are independently 4, 5 or 6; the total of n1, n2 and n3 equals to 14, 15 or 16; m1, m2, m3 are independently 1, 2 or 3; the total of m1, m2 and m3 equals to 4, 5 or 6; and R1, R2 and R3 are independently H or CH3. The esters can be used as crosslinking agents in production of hydrogels, or as components in cement additive compns. or in production of polymer dispersions and lacquers. Thus, an alkoxylated trimethylolpropane was produced by reacting trimethylolpropane (77) in water in the presence of KOH (0.5) with propylene oxide (167) at 120-130°, followed by adding and reacting with ethylene oxide (379 g) at 145-155°. The alkoxylated trimethylolpropane (887) was mixed with acrylic acid (216) and esterified in the presence of H2SO4 (5 parts) and polymerization inhibitors. The obtained alkoxylated trimethylolpropane triacrylate was used as a crosslinking agent in radical polymerization with acrylic acid and sodium acrylate.

IT **150604-34-5P**
RL: IMF (Industrial manufacture); PREP (Preparation)
(acrylic esters of alkoxylated trimethylolpropane useful in production of hydrogels)

RN 150604-34-5 HCAPLUS

CN Oxirane, methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), tris(2-methyl-2-propenoate), block (9CI) (CA INDEX NAME)

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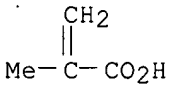

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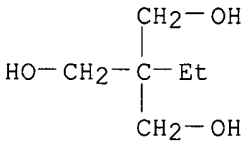

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CM 4

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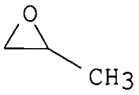

CM 5

CRN 75-21-8
CMF C2 H4 O

IT **633314-15-5P**
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(acrylic esters of alkoxylated trimethylolpropane useful in production of hydrogels)
RN 633314-15-5 HCAPLUS
CN 2-Propenoic acid, polymer with methyloxirane block polymer with oxirane ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) tri-2-propenoate, and sodium 2-propenoate (9CI) (CA INDEX NAME)

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CRN 7446-81-3
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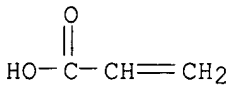

● Na

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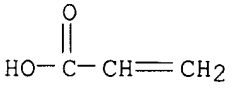

CM 3

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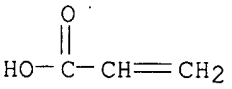

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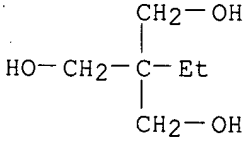
CMF C6 H14 O3



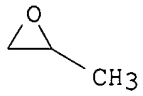
CM 6

CRN 106392-12-5

CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 7

CRN 75-56-9
CMF C3 H6 O



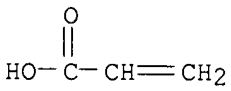
CM 8

CRN 75-21-8
CMF C2 H4 O

IT **633314-14-4P**
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(acrylic esters of alkoxylated trimethylolpropane useful in production of hydrogels)
RN 633314-14-4 HCAPLUS
CN Oxirane, methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), tri-2-propenoate, block (9CI) (CA INDEX NAME)

CM 1

CRN 79-10-7
CMF C3 H4 O2



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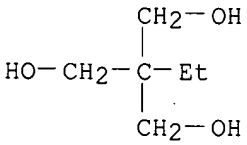

CM 3

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CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 4

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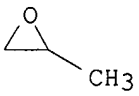

CM 5

CRN 75-21-8
CMF C2 H4 O

RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Basf Corp	2001			WO 0156625 A	HCAPLUS
Christensen, S	2001			WO 0145758 A	HCAPLUS
Gartner, H	1996			US 5506324 A	HCAPLUS
Kushi, K	1994			US 5356754 A	HCAPLUS

L72 ANSWER 5 OF 22 HCAPLUS COPYRIGHT 2006 ACS on STN
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DN 140:28395
TI Acrylic esters of alkoxylated trimethylolpropane useful in production of hydrogels
IN **Popp, Andreas; Daniel, Thomas; Schroeder, Juergen; Jaworek, Thomas; Funk, Ruediger; Schwalm, Reinhold; Weismantel, Matthias; Riegel, Ulrich**
PA **BASF Aktiengesellschaft, Germany**
SO PCT Int. Appl., 70 pp.
CODEN: PIXXD2
DT **Patent**
LA German
FAN.CNT 8

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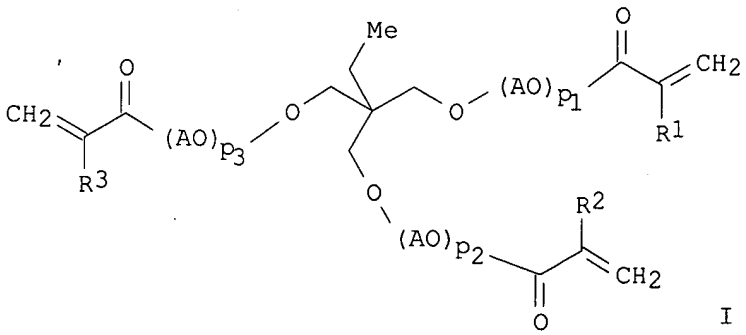


I

AB Acrylic and/or methacrylic esters of alkoxylated trimethylolpropane have the general formula (I), where each AO independently represents EO, PO or BO, EO being -OCH2CH2-, PO being -OCH2CH(CH3)- or -OCH(CH3)CH2-, BO being -OCH2CH(CH2CH3)- or -OCH(CH2CH3)CH2-; the total of p1, p2 and p3 equals to an integer from 28 to 75; and R1, R2 and R3 are independently H or CH3. The esters can be used as crosslinking agents in production of hydrogels, or as components in cement additive compns. or in production of polymer dispersions and lacquers. Thus, an alkoxylated trimethylolpropane was produced by reacting trimethylolpropane (77) in water in the presence of KOH (0.5) with ethylene oxide (759) at 145-155°, followed by adding and reacting with propylene oxide (167 g) at 120-130°. The

alkoxylated trimethylolpropane (1,427) was mixed with acrylic acid (216) and esterified in the presence of H2SO4 (5 parts) and polymerization inhibitors.

The obtained alkoxylated trimethylolpropane triacrylate was used as a crosslinking agent in radical polymerization with acrylic acid and sodium acrylate.

IT **150604-34-5P**

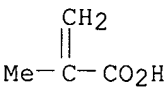
RL: IMF (Industrial manufacture); PREP (Preparation)
(acrylic esters of alkoxylated trimethylolpropane useful in production of hydrogels)

RN 150604-34-5 HCAPLUS

CN Oxirane, methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), tris(2-methyl-2-propenoate), block (9CI) (CA INDEX NAME)

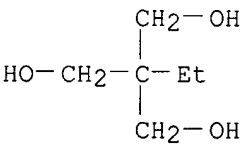
CM 1

CRN 79-41-4
CMF C4 H6 O2



CM 2

CRN 77-99-6
CMF C6 H14 O3

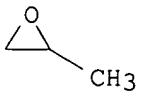


CM 3

CRN 106392-12-5
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 4

CRN 75-56-9
CMF C3 H6 O



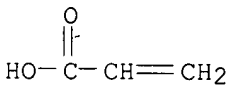
CM 5

CRN 75-21-8
CMF C2 H4 O

IT **633314-15-5P**
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(acrylic esters of alkoxylated trimethylolpropane useful in production of hydrogels)
RN 633314-15-5 HCAPLUS
CN 2-Propenoic acid, polymer with methyloxirane block polymer with oxirane ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) tri-2-propenoate, and sodium 2-propenoate (9CI) (CA INDEX NAME)

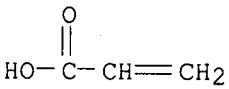
CM 1

CRN 7446-81-3
CMF C3 H4 O2 . Na



CM 2

CRN 79-10-7
CMF C3 H4 O2

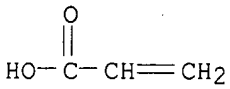


CM 3

CRN 633314-14-4
CMF C6 H14 O3 . 3 (C3 H6 O . C2 H4 O)x . 3 C3 H4 O2

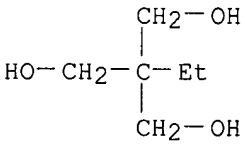
CM 4

CRN 79-10-7
CMF C3 H4 O2



CM 5

CRN 77-99-6
CMF C6 H14 O3

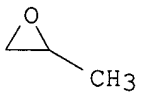


CM 6

CRN 106392-12-5
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 7

CRN 75-56-9
CMF C3 H6 O



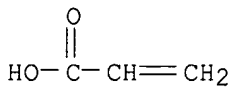
CM 8

CRN 75-21-8
CMF C2 H4 O

IT **633314-14-4P**
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(acrylic esters of alkoxylated trimethylolpropane useful in production of hydrogels)
RN 633314-14-4 HCAPLUS
CN Oxirane, methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), tri-2-propenoate, block (9CI) (CA INDEX NAME)

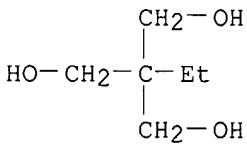
CM 1

CRN 79-10-7
CMF C3 H4 O2



CM 2

CRN 77-99-6
CMF C6 H14 O3

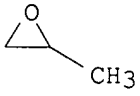


CM 3

CRN 106392-12-5
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 4

CRN 75-56-9
CMF C3 H6 O



CM 5

CRN 75-21-8
CMF C2 H4 O

RETABLE

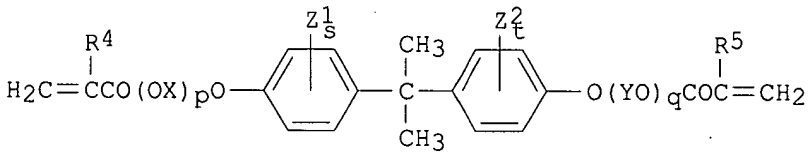
Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Abraham, B	1968			US 3380831 A	
Basf Ag	1988			EP 0264841 A	HCAPLUS
Dai Ichi Kogyo Seiyaku	1999			EP 0923147 A	HCAPLUS

Gartner, H	1996			US 5506324 A	HCAPLUS
Hartmann, H	1997			US 5661220 A	HCAPLUS
Kushi, K	1994			US 5356754 A	HCAPLUS
Matsushita Electric Ind	1997			EP 0777287 A	HCAPLUS
Ritter, W	1997			US 5648518 A	HCAPLUS

L72 ANSWER 6 OF 22 HCAPLUS COPYRIGHT 2006 ACS on STN
AN 2000:418045 HCAPLUS
DN 133:65978
TI Photosensitive resin composition, photosensitive element using same, resist pattern formation, and production of printed circuit board
IN Ichikawa, Tatsuya; Ohashi, Takeshi
PA Hitachi Chemical Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 12 pp.
CODEN: JKXXAF
DT **Patent**
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2000171971	A2	20000623	JP 1998-345349	19981204 <--
PRAI JP 1998-345349		19981204 <--		

GI



I

AB The title resin composition contains (a) a CO2H-containing binder polymer, (b) photopolymg. compds. having ≥1 polymerizable ethylenic unsatd. bond in their mols. including compds. MeCH2[CH2CH2O(AO)m1(BO)n1COCR1:CH2][CCH2O(AO)m2(BO)n2COCR2:CH2][CH2CH2O(AO)m3(BO)n3COCR 3:CH2] [R1-3 = H or Me; A, B = C2-6 alkylene (A ≠ B); m1 + m2 + m3 = 6-45; n1 + n2 + n3 = 3-45] and I [R4, R5 = H or Me; X, Y = C2-6 alkylene; Z1, Z2 = halo, H, C1-20 alkyl, C3-10 cycloalkyl, amino- or C1-20 alkyl-substituted aryl, amino, SH, C1-10 alkylmercapto, C1-10 alkyl-containing carboxyalkyl, C1- 20 alkoxy, heterocycle-containing group; p + q = 8-40; s, t = 1-4] as essential components, and (c) a photopolymn. initiator. The photosensitive element comprises a support laminated with the composition and an optional protective film and is laminated on a substrate for forming a circuit while the protective film is being peeled off, if necessary, imagewise exposed to activating ray to photo-cure the exposed areas, and developed to remove the unexposed areas to form a resist pattern. The substrate on which a resist pattern has been formed by the above process is subjected to etching or plating to give a printed circuit board. The composition shows high photosensitivity and provides high resolution resist patterns with high plating resistance, adhesivity, mech. strength, and flexibility.

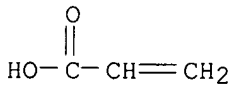
IT **117989-76-1**
RL: TEM (Technical or engineered material use); USES (Uses)
(O 565; photoresist composition containing polymer with carboxy group, acrylate
compound, and photopolymn. initiator)

RN 117989-76-1 HCAPLUS
CN Oxirane, methyl-, polymer with oxirane, ether with 2-ethyl-2-

(hydroxymethyl)-1,3-propanediol (3:1), tri-2-propenoate (9CI) (CA INDEX NAME)

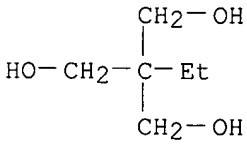
CM 1

CRN 79-10-7
CMF C3 H4 O2



CM 2

CRN 77-99-6
CMF C6 H14 O3

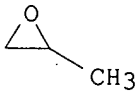


CM 3

CRN 9003-11-6
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 4

CRN 75-56-9
CMF C3 H6 O



CM 5

CRN 75-21-8
CMF C2 H4 O

L72 ANSWER 7 OF 22 HCAPLUS COPYRIGHT 2006 ACS on STN
AN 2000:127557 HCAPLUS

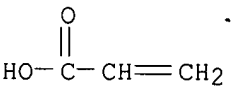
DN 132:152313
TI Extraction procedure for the production of pure esters of α,β-ethylenically unsaturated carboxylic acids
IN Paulus, Wolfgang; Bernhard, Ludwig; Johansson, Astrid Carina; Haas, Guenter; Geisendoerfer, Matthias; Beck, Erich; Leube, Hartmann; Kuse, Reinhold; Jaeger, Ulrich
PA **BASF A.-G., Germany**
SO Ger. Offen., 10 pp.
CODEN: GWXXBX
DT **Patent**
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19836788	A1	20000224	DE 1998-19836788	19980813 <--
	DE 19836788	B4	20060928		
PRAI	DE 1998-19836788		19980813 <--		

AB A procedure for the production of pure, water-insol. esters of α,β-ethylenically unsatd. carboxylic acids (e.g., acrylic acid esters of ethoxylated propoxylated trimethylolpropane) from its mixts. which are contaminated with unconverted carboxylic acid(s) and/or acid group-containing catalysts comprises: (A) conducting a liquid-liquid extraction against an aqueous phase containing the esters using a base; and (B) the aqueous base with the impurities contained in it are phase separated
IT **117989-76-1P**
RL: PUR (Purification or recovery); PREP (Preparation)
(extraction procedure for the production of pure esters of ethylenically unsatd. carboxylic acids)
RN 117989-76-1 HCAPLUS
CN Oxirane, methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), tri-2-propenoate (9CI) (CA INDEX NAME)

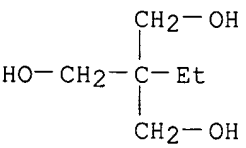
CM 1

CRN 79-10-7
CMF C3 H4 O2



CM 2

CRN 77-99-6
CMF C6 H14 O3

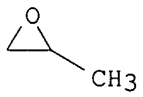


CM 3

CRN 9003-11-6
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 4

CRN 75-56-9
CMF C3 H6 O



CM 5

CRN 75-21-8
CMF C2 H4 O

RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Anon				EP 0618187 A1	HCAPLUS
Anon				JP 62106052 A	HCAPLUS
Anon				JP 62106056 A	HCAPLUS
Anon				JP 62106057 A	HCAPLUS
Anon				JP 63174951 A	HCAPLUS
Anon				JP 63275544 A	HCAPLUS
Ullmann	1985	A1	168	Encyclopedia of Indu	

L72 ANSWER 8 OF 22 HCAPLUS COPYRIGHT 2006 ACS on STN
AN 1999:322528 HCAPLUS
DN 131:37785
TI Photosensitive resin composition and photosensitive element using same
IN Ichikawa, Tatsuya; Endo, Masaki
PA Hitachi Chemical Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DT **Patent**
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 11133595	A2	19990521	JP 1997-294510	19971027 <--
PRAI JP 1997-294510		19971027 <--		

AB The title resin composition comprises (a) a CO2H-containing binder polymer, (b) a photopolymn. initiator, and (c) photopolymg. unsatd. compds. having

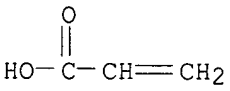
≥1 polymerizable ethylenic unsatd. bond in their mol. including 5-70 weight% of compound EtC[CH2O(AO)m1(BO)n1COCR1:CH2][CH2O(AO)m2(BO)n2COCR2:CH2][CH2O(AO)m3(BO)n3COCR3:CH2] (R1- 3 = H or Me; A, B = CHMeCH2, CH2CHMe, CH2CH2, A ≠ B; m1 + m2 + m3 = 6-45; n1 + n2 + n3 = 3-45). The photosensitive element comprises a support coated with the composition The composition useful as a resist suited for use in production of printed circuit boards shows improved plating resistance and peeling properties.

IT **117989-76-1**
RL: TEM (Technical or engineered material use); USES (Uses)
(photoresist containing binder polymer with carboxyl group, photopolymn. initiator, and ethylenic unsaturate photopolymerizable compound)

RN 117989-76-1 HCAPLUS
CN Oxirane, methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), tri-2-propenoate (9CI) (CA INDEX NAME)

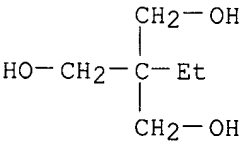
CM 1

CRN 79-10-7
CMF C3 H4 O2



CM 2

CRN 77-99-6
CMF C6 H14 O3

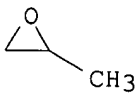


CM 3

CRN 9003-11-6
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 4

CRN 75-56-9
CMF C3 H6 O



CM 5

CRN 75-21-8
CMF C2 H4 O

L72 ANSWER 9 OF 22 HCAPLUS COPYRIGHT 2006 ACS on STN
AN 1997:479241 HCAPLUS
DN 127:97521
TI Flat non-aqueous electrolyte secondary battery with polymer coated anode
IN Matsui, Tooru; Takeyama, Kenichi
PA Matsushita Electric Industrial Co., Ltd., Japan
SO Eur. Pat. Appl., 13 pp.
CODEN: EPXXDW
DT **Patent**
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 777287	A2	19970604	EP 1996-117858	19961107 <--
	EP 777287	A3	19970716		
	EP 777287	B1	20000202		
	R: BE, DE, FR, GB, IT				
	JP 09147920	A2	19970606	JP 1995-309381	19951128 <--
	JP 3394125	B2	20030407		
	US 5773166	A	19980630	US 1996-756778	19961126 <--
PRAI	JP 1995-309381	A	19951128 <--		

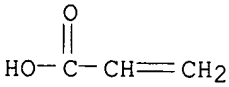
AB The flat non-aqueous electrolyte secondary battery has an anode containing an alkali metal (e.g., lithium) active material, where the anode is coated with a polymer film containing dissociated alkali metal ions, supporting a gel electrolyte. The polymer film is made of a polymeric monomer which has mol. weight/terminal polymer functional group number of ≤500, and a alkoxylated polyol acrylate structure where the alkoxylated chains are formed by random or block polymerization of ethylene oxide and/or propylene oxide.

IT **117989-76-1**
RL: DEV (Device component use); TEM (Technical or engineered material use); USES (Uses)
(flat non-aqueous electrolyte secondary alkali metal battery with polymer coated anode)

RN 117989-76-1 HCAPLUS
CN Oxirane, methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), tri-2-propenoate (9CI) (CA INDEX NAME)

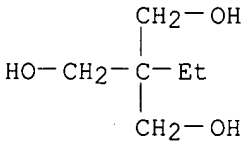
CM 1

CRN 79-10-7
CMF C3 H4 O2



CM 2

CRN 77-99-6
CMF C6 H14 O3

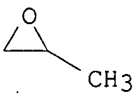


CM 3

CRN 9003-11-6
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 4

CRN 75-56-9
CMF C3 H6 O



CM 5

CRN 75-21-8
CMF C2 H4 O

L72 ANSWER 10 OF 22 HCAPLUS COPYRIGHT 2006 ACS on STN
AN 1997:369593 HCAPLUS
DN 126:344211
TI Continuous process for the preparation of highly stable, finely divided, low viscosity polymer polyols of small average particle size
IN Kratz, Mark R.; Dietrich, Manfred; Heinemann, Torsten; Jacobs, Gundolf; Sanders, Josef; Woynar, Helmut
PA Bayer A.-G., Germany
SO Eur. Pat. Appl., 14 pp.
CODEN: EPXXDW
DT **Patent**
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

PI	EP 768324	A1	19970416	EP 1995-115940	19951010 <--
	EP 768324	B1	20000816		
	R: BE, DE, ES, FR, GB, IT, NL				
	ES 2148397	T3	20001016	ES 1995-115940	19951010 <--
	US 5814699	A	19980929	US 1996-723659	19961003 <--
	CA 2187125	AA	19970411	CA 1996-2187125	19961004 <--
	JP 09124750	A2	19970513	JP 1996-285938	19961009 <--
	BR 9605032	A	19980630	BR 1996-5032	19961009 <--
	CN 1160061	A	19970924	CN 1996-112759	19961010 <--
	CN 1069654	B	20010815		
PRAI	EP 1995-115940	A	19951010 <--		

OS MARPAT 126:344211

AB Highly stable, finely divided, low viscosity polymer polyols of small average particle size, useful for preparation of polyurethane foams, are manufacture by 1st reacting (1) a mixture of styrene and acrylonitrile (I) in a mixture of (2) a polyoxyalkylene polyether polyol and (3) a macromer in the presence of (4) a free radical initiator, (5) a solvent having moderate chain transfer activity and optionally (6) a reaction moderator at a temperature of ≥100° to give a seed with macromer content ≥12% with respect to the polyol mixture and the solids content 15-30%, and then using the seed in further stirred-tank reactors for a similar polymerization of styrene with I but optionally in the presence of a macromer. A typical macromer was manufactured by reaction of ethylene oxide-propylene oxide copolymer trimethylolpropane ether with maleic anhydride and subsequently with ethylene oxide.

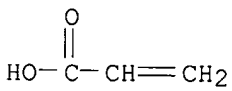
IT **118800-30-9P**
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(macromer; continuous manufacture of highly stable, finely divided, low viscosity polymer polyols of small average particle size from macromers for polyurethane foams)

RN 118800-30-9 HCAPLUS

CN Oxirane, methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), 2-propenoate (9CI) (CA INDEX NAME)

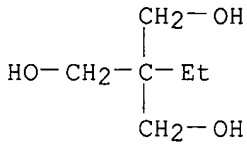
CM 1

CRN 79-10-7
CMF C3 H4 O2



CM 2

CRN 77-99-6
CMF C6 H14 O3

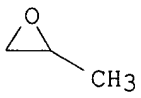


CM 3

CRN 9003-11-6
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 4

CRN 75-56-9
CMF C3 H6 O



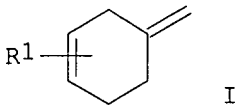
CM 5

CRN 75-21-8
CMF C2 H4 O

L72 ANSWER 11 OF 22 HCAPLUS COPYRIGHT 2006 ACS on STN
AN 1996:580576 HCAPLUS
DN 125:302320
TI Low viscosity polymer polyols, a process for their production, and manufacture of polyurethane from materials
IN Sanders, Josef; Kratz, Mark; Dietrich, Manfred; Heinemann, Torsten; Woynar, Helmut; Jacobs, Gundolf; Scholz, Uwe
PA Bayer Aktiengesellschaft, Germany
SO U.S., 10 pp.
CODEN: USXXAM
DT **Patent**
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5554662	A	19960910	US 1995-470695	19950606 <--
PRAI	DE 1995-19508578	A	19950310 <--		

OS MARPAT 125:302320
GI



I

AB Stable, agglomerate-free, low viscosity graft copolymer dispersions are produced by radical polymerization of ethylenically unsatd. monomers in the presence of a base polyol, a macromer, an enol ether chain-transfer agent A=CHOR (A is I; R is a C1-18 aliphatic hydrocarbon radical, a C5-10 cycloaliph. hydrocarbon radical, or a (substituted) benzyl radical; R' is H or a C1-8 aliphatic hydrocarbon radical), and optionally, an organic solvent. Acrylonitrile and styrene were polymerized with ethylene trimethylolpropane-initiated oxide-propylene oxide copolymer acrylate macromer in the presence of cyclohex-3-enylidene-cyclohexyl ether to give a graft copolymer which was used in manufacture of a polyurethane foam.

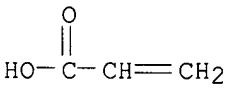
IT **118800-30-9P**
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(low viscosity polymer polyols, a process for their production, and manufacture
of polyurethane from materials)

RN 118800-30-9 HCAPLUS

CN Oxirane, methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), 2-propenoate (9CI) (CA INDEX NAME)

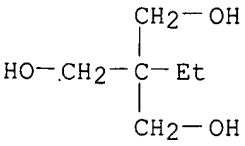
CM 1

CRN 79-10-7
CMF C3 H4 O2



CM 2

CRN 77-99-6
CMF C6 H14 O3

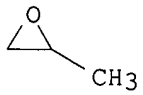


CM 3

CRN 9003-11-6
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 4

CRN 75-56-9
CMF C3 H6 O



CM 5

CRN 75-21-8
CMF C2 H4 O

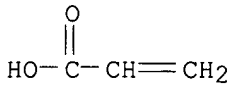
L72 ANSWER 12 OF 22 HCAPLUS COPYRIGHT 2006 ACS on STN
AN 1995:235144 HCAPLUS
DN 122:147331
TI Photosensitive resin composition and photosensitive element
IN Sawabe, Masaru; Ishimaru, Toshiaki
PA Hitachi Chemical Co Ltd, Japan
SO Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF
DT **Patent**
LA Japanese
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 06242603	A2	19940902	JP 1993-25691	19930215 <--
	JP 2002328469	A2	20021115	JP 2002-18913	19930215 <--
	JP 3437179	B2	20030818		
PRAI	JP 1993-25691	A3	19930215 <--		

AB The composition comprises (1) an ethylenic unsatd. compound having ≥3 unsatd. groups O(R3O)n(R2O)nCOCR1:CH2 (R1 = H, Me; R2-3 = ethylene, propylene, R2 ≠ R3; m, n ≥1), (2) an organic halo compound, (3) a film-forming polymer, and (4) photopolymn. initiator that generates radicals by irradiation Photosensitive elements comprising substrates and the photosensitive composition layer are claimed. The composition shows good flexibility, releasing property, and plating resistance, and prevents generation of scum.
IT **117989-76-1 161278-82-6**
RL: TEM (Technical or engineered material use); USES (Uses)
(photoresist containing propoxy ethoxy acrylate and organic halo compound)
RN 117989-76-1 HCAPLUS
CN Oxirane, methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), tri-2-propenoate (9CI) (CA INDEX NAME)

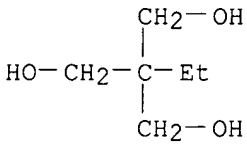
CM 1

CRN 79-10-7
CMF C3 H4 O2



CM 2

CRN 77-99-6
CMF C6 H14 O3

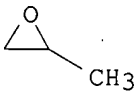


CM 3

CRN 9003-11-6
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 4

CRN 75-56-9
CMF C3 H6 O



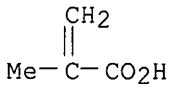
CM 5

CRN 75-21-8
CMF C2 H4 O

RN 161278-82-6 HCAPLUS
CN Oxirane, methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), tris(2-methyl-2-propenoate) (9CI) (CA INDEX NAME)

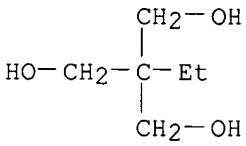
CM 1

CRN 79-41-4
CMF C4 H6 O2



CM 2

CRN 77-99-6
CMF C6 H14 O3

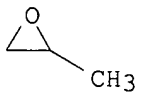


CM 3

CRN 9003-11-6
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 4

CRN 75-56-9
CMF C3 H6 O



CM 5

CRN 75-21-8
CMF C2 H4 O

L72 ANSWER 13 OF 22 HCAPLUS COPYRIGHT 2006 ACS on STN
AN 1995:227405 HCAPLUS
DN 122:92840
TI Crosslinking curable resin composition
IN Kushi, Kenji; Inukai, Kenichi; Iseki, Takayuki; Koyanagi, Seiya
PA Mitsubishi Rayon Co., Ltd., Japan
SO U.S., 13 pp.
CODEN: USXXAM
DT **Patent**
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5356754	A	19941018	US 1992-950500	19920925 <--
PRAI	US 1992-950500		19920925 <--		

AB A photopolymerizable or radiation polymerizable alkaline developing crosslinking curable resin composition comprises: (a) 5-30 parts by weight of at least one compound possessing in one mol. on the average 1.5 or more (meth)acryloyloxy groups, which is obtained by reacting (meth)acrylic acid with a reaction product formed by adding, to a polyat. alc. possessing 3 or more OH groups in one mol., an alkylene oxide containing propylene oxide in an amount of 67% molar or greater in an amount of 5-12 mol per mol of OH group in the aforementioned polyat. alc., (b) 5-30 parts by weight of at least one crosslinkable monomer other than that stated above in (a) , possessing in one mol. 2 or more ethylenically unsatd. groups, (c) 45-75 parts by weight of a thermoplastic polymer for use as a binder, the thermoplastic polymer in turn being formed of 15-35 weight% of at least one α, β-unsatd. carboxyl group containing a monomer having 3-15 carbon atoms, and 65-85 weight % of another copolymerizable monomer, and (d) 0-10 parts by weight of a photopolymn. initiator. The composition possesses superior antiplating properties and a short stripping period, in which the stripped plate is not easily dissolved in the stripping fluid.

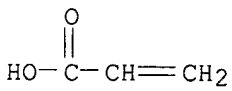
IT **118800-30-9P**
RL: POF (Polymer in formulation); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(crosslinking curable resin composition)

RN 118800-30-9 HCAPLUS

CN Oxirane, methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), 2-propenoate (9CI) (CA INDEX NAME)

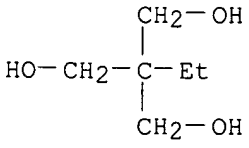
CM 1

CRN 79-10-7
CMF C3 H4 O2



CM 2

CRN 77-99-6
CMF C6 H14 O3

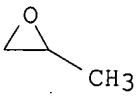


CM 3

CRN 9003-11-6
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 4

CRN 75-56-9
CMF C3 H6 O



CM 5

CRN 75-21-8
CMF C2 H4 O

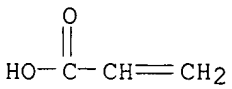
L72 ANSWER 14 OF 22 HCAPLUS COPYRIGHT 2006 ACS on STN
AN 1994:334936 HCAPLUS
DN 120:334936
TI Novel (meth)acrylate for photoresists
IN Myazaki, Seiji; Myoshi, Takanori; Sonobe, Hiroshi; Koyanagi, Seiya
PA Mitsubishi Rayon Co, Japan
SO Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DT **Patent**
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 05125015	A2	19930521	JP 1991-289960	19911106 <--
PRAI JP 1991-289960		19911106 <--		

AB The claimed acrylate is obtained by forming an adduct of alkylene oxides to a polyhydric alc., then esterifying; the polyhydric alc. containing ≥3 OH in 1 mol., the alkylene oxide being propylene oxide or its mixture with ethylene oxide (propylene oxide ≥67 mol%), the addition amount of alkylene oxides to polyhydric alc. being average 5-12 mol/mol(OH), and there existing average ≥1.5 (meth)acrylate ester group in 1 mol.. The (meth)acrylate shows superior plating-resistance, easy peeling off property and low irritation to skin.
IT **118800-30-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and use of, as photoresist composition)
RN 118800-30-9 HCAPLUS
CN Oxirane, methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), 2-propenoate (9CI) (CA INDEX NAME)

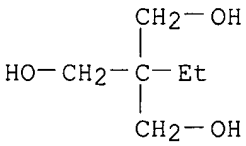
CM 1

CRN 79-10-7
CMF C3 H4 O2



CM 2

CRN 77-99-6
CMF C6 H14 O3

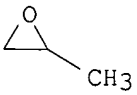


CM 3

CRN 9003-11-6
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 4

CRN 75-56-9
CMF C3 H6 O



CM 5

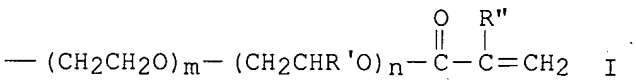
CRN 75-21-8
CMF C2 H4 O

L72 ANSWER 15 OF 22 HCAPLUS COPYRIGHT 2006 ACS on STN
AN 1993:683964 HCAPLUS
DN 119:283964
TI Solid electrolytes and their preparation
IN Kono, Michiyuki; Motogami, Kenji; Mori, Shigeo
PA Daiichi Kogyo Seiyaku Co., Ltd., Japan
SO Eur. Pat. Appl., 11 pp.

CODEN: EPXXDW
DT **Patent**
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 537930	A1	19930421	EP 1992-309063	19921005 <--
	EP 537930	B1	19950524		
	R: DE, FR, GB, NL				
	JP 05109311	A2	19930430	JP 1991-296173	19911015 <--
	JP 2987474	B2	19991206		
	US 5356553	A	19941018	US 1992-957258	19921006 <--
	CA 2080047	AA	19930416	CA 1992-2080047	19921007 <--
	CA 2080047	C	19990302		
PRAI	JP 1991-296173	A	19911015 <--		

GI



I

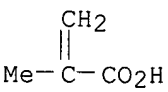
AB The title electrolytes are prepared by dissolving a solvent and an electrolyte salt in a trifunctional terminal acryloyl-modified alkylene oxide polymer containing a polymer chain described by the general formula I (R' = a low mol. weight alkyl group; R'' = H or Me; m, or n = 0 or an integer ≥1; and m + n ≥35) and crosslinking it. The electrolytes are ion conductors and applications in cells, electrochromic displays, and sensors are indicated.

IT **115165-81-6P 118800-30-9P**
RL: PREP (Preparation)
(preparation of, for electrolytes)

RN 115165-81-6 HCAPLUS
CN Oxirane, methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), 2-methyl-2-propenoate, block (9CI) (CA INDEX NAME)

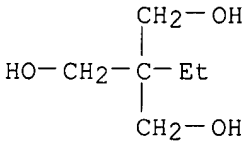
CM 1

CRN 79-41-4
CMF C4 H6 O2



CM 2

CRN 77-99-6
CMF C6 H14 O3

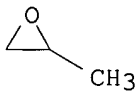


CM 3

CRN 106392-12-5
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 4

CRN 75-56-9
CMF C3 H6 O



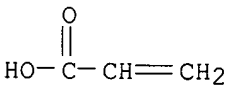
CM 5

CRN 75-21-8
CMF C2 H4 O

RN 118800-30-9 HCAPLUS
CN Oxirane, methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), 2-propenoate (9CI) (CA INDEX NAME)

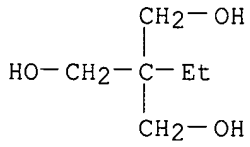
CM 1

CRN 79-10-7
CMF C3 H4 O2



CM 2

CRN 77-99-6
CMF C6 H14 O3

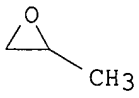


CM 3

CRN 9003-11-6
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 4

CRN 75-56-9
CMF C3 H6 O



CM 5

CRN 75-21-8
CMF C2 H4 O

L72 ANSWER 16 OF 22 HCAPLUS COPYRIGHT 2006 ACS on STN
AN 1993:675100 HCAPLUS
DN 119:275100
TI Batteries with solid polymer electrolytes
IN Kono, Michiyuki; Mori, Shigeo; Takeda, Kazunari; Izuti, Shyuiti
PA Daiichi Kogyo Seiyaku Co., Ltd., Japan; Yuasa Corp.
SO PCT Int. Appl., 29 pp.
CODEN: PIXXD2
DT **Patent**
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9314529	A1	19930722	WO 1993-JP64	19930120 <--
	W: CA, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	JP 05198303	A2	19930806	JP 1992-31451	19920121 <--
	EP 576686	A1	19940105	EP 1993-902505	19930120 <--
	EP 576686	B1	20011010		
	R: DE, FR, GB				
	JP 07006787	A2	19950110	JP 1993-26269	19930120 <--
	JP 3290229	B2	20020610		

	CA 2106205	C	19991214	CA 1993-2106205	19930120 <--
	US 5436090	A	19950725	US 1993-119214	19930921 <--
PRAI	JP 1992-31451	A	19920121 <--		
	WO 1993-JP64	W	19930120 <--		

AB The batteries use electrolytes obtained by crosslinking a mixture containing a trifunctional group polymer, an electrolyte salt, and a solvent by energy beam irradiation and/or heating; where the polymer contains 3 functional polymer chains of (CH2CH2O)m(CH2CRHO)nCOCR1:CH2 (R = C1-6 alkyl group, R1 = H or Me, m + n ≥35, and m or n may be 0), and the solvent is used at 220-950% the weight of the polymer. The batteries may use the electrolyte as separators and cathodes containing the electrolyte, or use anodes containing the electrolyte.

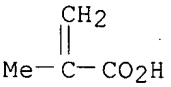
IT **150604-34-5**
RL: USES (Uses)
(crosslinked, electrolyte containing lithium salts and solvents and, for batteries)

RN 150604-34-5 HCAPLUS

CN Oxirane, methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), tris(2-methyl-2-propenoate), block (9CI) (CA INDEX NAME)

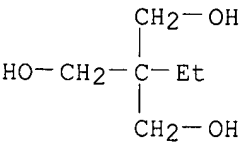
CM 1

CRN 79-41-4
CMF C4 H6 O2



CM 2

CRN 77-99-6
CMF C6 H14 O3

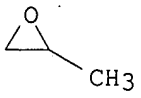


CM 3

CRN 106392-12-5
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 4

CRN 75-56-9
CMF C3 H6 O



CM 5

CRN 75-21-8
CMF C2 H4 O

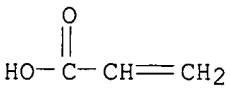
L72 ANSWER 17 OF 22 HCAPLUS COPYRIGHT 2006 ACS on STN
AN 1993:451269 HCAPLUS
DN 119:51269
TI Prevention of discoloration of unfixed dyes by combustion exhaust gases in dyeing or printing fabrics with reactive dyes
IN Takekoshi, Shoji; Hashimoto, Akira; Tao, Kazuo
PA Meisei Chemical Works, Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DT **Patent**
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 04333676	A2	19921120	JP 1991-135446	19910510 <--
JP 2549583	B2	19961030		
PRAI JP 1991-135446		19910510 <--		

AB In the title process, cellulosic fabrics are dyed or printed with compns. containing CH2:CRCO2(CH2CH2O)s(CH2CHMeO)pCOCR:CH2 (R = Me, H; s = 5-20; p = 0-10), CH2:CRCO2CH2CH(OH)CH2O(CH2CH2O)s(CH2CHMeO)pCH2CH(OH)CH2CO2CR:CH2, MeCH2C(CH2OX)3 [X = (CH2CH2O)s(CH2CHMeO)pCOCR:CH2], and/or YOCH2C(CH2OX)3 [Y = CH2:CRCO(CH2CH2O)s(CH2CHMeO)p]. A designed cotton broadcloth was dyed with a liquid containing polyoxyethylene dimethacrylate and Remazole Orange 3R, dried, contacted with nitrogen oxide (g), and heat treated to give a colored fabric without discoloration.
IT **117989-76-1**
RL: USES (Uses)
(reactive dyeing solns. for cellulosic fabrics., for discoloration prevention)
RN 117989-76-1 HCAPLUS
CN Oxirane, methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), tri-2-propenoate (9CI) (CA INDEX NAME)

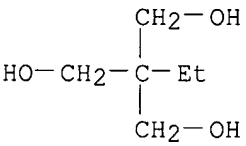
CM 1

CRN 79-10-7
CMF C3 H4 O2



CM 2

CRN 77-99-6
CMF C6 H14 O3

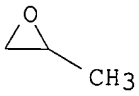


CM 3

CRN 9003-11-6
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 4

CRN 75-56-9
CMF C3 H6 O



CM 5

CRN 75-21-8
CMF C2 H4 O

L72 ANSWER 18 OF 22 HCAPLUS COPYRIGHT 2006 ACS on STN
AN 1993:410401 HCAPLUS
DN 119:10401
TI Resist printing cellulosic fabrics with reactive dyes for sharp patterns
IN Takekoshi, Shoji; Hashimoto, Akira; Tao, Kazuo
PA Meisei Chemical Works, Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DT **Patent**
LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 04343773	A2	19921130	JP 1991-141093	19910515 <--
	JP 2652475	B2	19970910		
PRAI	JP 1991-141093		19910515 <--		

AB In the title process, cellulosic fabrics are printed with compns. containing sulfurous acid salts, acidic sulfurous acid salts, and/or hydroxyalkanesulfonic acid salts as dye resist agents and subsequently printed with compns. containing reactive dyes containing vinyl sulfone groups, and polyoxyalkylene (meth)acrylates with a specified structure as hollowing preventive agents. A cotton broadcloth was printed with a composition containing Cibacron Red B and 3.0% Na2SO3, subsequently printed with a composition containing Sumifix Brilliant Blue R and 2.0% polyoxyethylene diacrylate, and heat treated 8 min at 100° to give a resist-printed fabric with a sharp pattern.

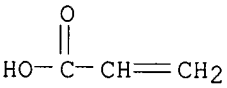
IT **117989-76-1**
RL: USES (Uses)
(resist printing compns. containing, for cotton fabrics, for sharp patterns)

RN 117989-76-1 HCAPLUS

CN Oxirane, methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), tri-2-propenoate (9CI) (CA INDEX NAME)

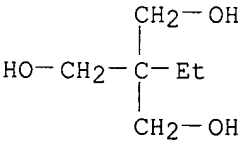
CM 1

CRN 79-10-7
CMF C3 H4 O2



CM 2

CRN 77-99-6
CMF C6 H14 O3

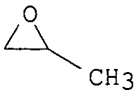


CM 3

CRN 9003-11-6
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 4

CRN 75-56-9
CMF C3 H6 O



CM 5

CRN 75-21-8
CMF C2 H4 O

L72 ANSWER 19 OF 22 HCAPLUS COPYRIGHT 2006 ACS on STN
AN 1989:10884 HCAPLUS
DN 110:10884
TI Copolymers from hydrophobic (meth)acrylic acid esters and hydrophilic monomers, method of their preparation, and application as petroleum emulsion breaker
IN Barthold, Klaus; Baur, Richard; Crema, Stefano Carlo; Lasowski, Juergen; Oppenlaender, Knut; Heide, Wilfried
PA **BASF A.-G., Fed. Rep. Ger.**
SO Ger. Offen., 16 pp.
CODEN: GWXXBX
DT **Patent**
LA German
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 3635489	A1	19880421	DE 1986-3635489	19861018 <--
	NO 8704319	A	19880419	NO 1987-4319	19871016 <--
	NO 171682	B	19930111		
	NO 171682	C	19930421		
	EP 264841	A2	19880427	EP 1987-115126	19871016 <--
	EP 264841	A3	19890712		
	EP 264841	B1	19921230		
	R: DE, FR, GB, IT, NL				
	CA 1309552	A1	19921027	CA 1987-549642	19871019 <--
	US 5472617	A	19951205	US 1993-175935	19931227 <--
PRAI	DE 1986-3635489	A	19861018 <--		
	US 1992-905130	B2	19920624 <--		

AB The copolymers useful as petroleum emulsion breakers are prepared from hydrophobic (meth)acrylic acid esters, their alc. components derived from a mixture of polyglycols and polyglycol ethers, with hydrophilic, ethylenic unsatd. monomers, whereby in copolymers (i) all or substantially all free OH-groups are etherified, esterified, or converted into urethane groups and/or (ii) by esterification the acid is neutralized by amine addition Thus, 893 g acrylic acid ester with ethoxylated-propoxylated trimethylolpropane and 95.8 g acrylic acid, in the presence of 453 mg 2,2'-azobisisobutyronitrile and 460 g xylene, were copolymd. at 80°

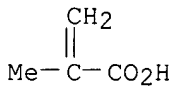
for 3 h to obtain a polymer (K-value 13.2, measured as 1% xylene solution), which was then treated with 14.3 g acetic anhydride at 100° for 3 h for end group protection and neutralized with 7.7 g tributylamine for catalytic acid to yield a final product having 23.8 K-value and <1 OH-number

IT **115165-81-6D**, polymers with (meth)acrylates **117801-95-3**
RL: USES (Uses)
(petroleum emulsion breaker)

RN 115165-81-6 HCAPLUS
CN Oxirane, methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), 2-methyl-2-propenoate, block (9CI) (CA INDEX NAME)

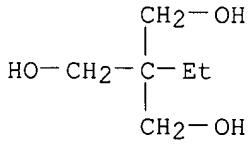
CM 1

CRN 79-41-4
CMF C4 H6 O2



CM 2

CRN 77-99-6
CMF C6 H14 O3

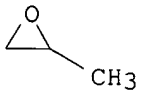


CM 3

CRN 106392-12-5
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 4

CRN 75-56-9
CMF C3 H6 O



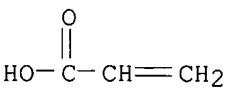
CM 5

CRN 75-21-8
CMF C2 H4 O

RN 117801-95-3 HCAPLUS
CN 2-Propenoic acid, polymer with methyloxirane block polymer with oxirane ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 79-10-7
CMF C3 H4 O2

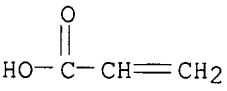


CM 2

CRN 117742-99-1
CMF C6 H14 O3 . 3 (C3 H6 O . C2 H4 O)x . x C3 H4 O2

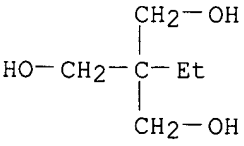
CM 3

CRN 79-10-7
CMF C3 H4 O2



CM 4

CRN 77-99-6
CMF C6 H14 O3

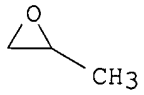


CM 5

CRN 106392-12-5
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 6

CRN 75-56-9
CMF C3 H6 O



CM 7

CRN 75-21-8
CMF C2 H4 O

L72 ANSWER 20 OF 22 HCAPLUS COPYRIGHT 2006 ACS on STN
AN 1989:9783 HCAPLUS
DN 110:9783
TI Acrylate-amine adducts for radiation-curable compositions
IN Weiss, Wolfram; Beck, Erich; Jacobi, Manfred; Richter, Peter
PA **BASF A.-G., Fed. Rep. Ger.**
SO Ger. Offen., 6 pp.
CODEN: GWXXBX
DT **Patent**
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 3706355	A1	19880908	DE 1987-3706355	19870227 <--
	JP 63227553	A2	19880921	JP 1988-35424	19880219 <--
	EP 280222	A2	19880831	EP 1988-102525	19880220 <--
	EP 280222	A3	19900704		

R: AT, BE, CH, DE, ES, FR, GB, IT, LI, LU, NL, SE

PRAI DE 1987-3706355 A 19870227 <--

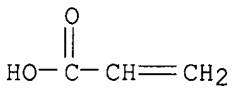
AB Addition products of a primary monoamine and an ester of (meth)acrylic acid and a polyhydric alc. (0.05-0.4 mol NH2/mol double bonds) have good storage stability, cure quickly and completely during irradiation in air, and are useful in coatings and printing inks. Ethanolamine 61, tripropylene glycol diacrylate 840, and BHT 0.9 g were heated at 60° to give a clear, colorless product having viscosity 130 mPa-s (at 23°) before and after 6 wk of storage at 60° in the dark. A mixture of the product 100, Ph2CO 2, and benzil di-Me ketal 1 g was coated (100 μm) on glass and cured in UV light.

IT **117989-76-1DP**, addition products with primary amines
RL: PREP (Preparation)
(preparation of storage-stable, photocurable)

RN 117989-76-1 HCAPLUS
CN Oxirane, methyl-, polymer with oxirane, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), tri-2-propenoate (9CI) (CA INDEX NAME)

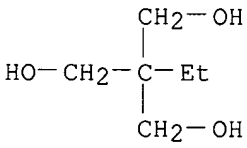
CM 1

CRN 79-10-7
CMF C3 H4 O2



CM 2

CRN 77-99-6
CMF C6 H14 O3

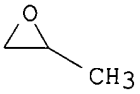


CM 3

CRN 9003-11-6
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 4

CRN 75-56-9
CMF C3 H6 O



CM 5

CRN 75-21-8
CMF C2 H4 O

L72 ANSWER 21 OF 22 HCAPLUS COPYRIGHT 2006 ACS on STN
AN 1979:7044 HCAPLUS
DN 90:7044
TI Stable suspensions of inorganic filler in organic polyhydroxyl compounds
IN Von Bonin, Wulf
PA Bayer A.-G., Fed. Rep. Ger.

SO Ger. Offen., 44 pp.
CODEN: GWXXBX
DT **Patent**
LA German
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2714291	A1	19781005	DE 1977-2714291	19770331 <--
	US 4207227	A	19800610	US 1977-856075	19771130 <--
	SE 7713638	A	19780604	SE 1977-13638	19771201 <--
	FR 2372851	A1	19780630	FR 1977-36404	19771202 <--
	GB 1583457	A	19810128	GB 1977-50304	19771202 <--
	JP 53071189	A2	19780624	JP 1977-144639	19771203 <--
	ES 464700	A1	19781101	ES 1977-464700	19771205 <--
PRAI	DE 1976-2654746	A	19761203 <--		
	DE 1977-2714291	A	19770331 <--		

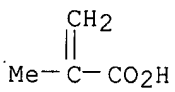
AB The title compns., useful in polyurethane prepns., contain 0.5-80% inorg. filler and 99.5-20% (cyclo)aliphatic polyol grafted with 0.01-35% unsatd. carboxylic acid and 0-25% comonomer (polyol CO2H content 0.005-15%). Thus, stirring polyethylene-polypropylene glycol trimethylolpropane ether (3:1) (I) (mol. weight 4800, primary OH content <3%) 200, styrene 10, acrylic acid 20, and tert-Bu peroxyoctanoate 0.5 part 4 h at 90° gave a clear, viscous graft polymer (II) [67184-04-7]. A suspension of 80 parts CaCO3 (average particle size 3 μ) in 400 parts I and 52 parts II showed 0.5% settling in 15 days at 21°, compared with 65% in the absence of II.

IT **67183-99-7 67184-01-4**
RL: USES (Uses)
(graft, dispersing agents, for suspensions of inorg. fillers in polyols)

RN 67183-99-7 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with methyloxirane polymer with oxirane ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) and 2-propenoic acid (9CI) (CA INDEX NAME)

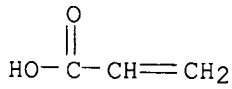
CM 1

CRN 79-41-4
CMF C4 H6 O2



CM 2

CRN 79-10-7
CMF C3 H4 O2

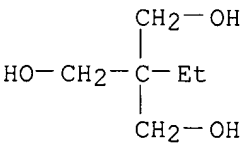


CM 3

CRN 52624-57-4
CMF C6 H14 O3 . 3 (C3 H6 O . C2 H4 O)x

CM 4

CRN 77-99-6
CMF C6 H14 O3

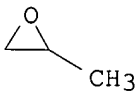


CM 5

CRN 9003-11-6
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 6

CRN 75-56-9
CMF C3 H6 O



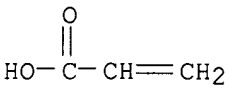
CM 7

CRN 75-21-8
CMF C2 H4 O

RN 67184-01-4 HCAPLUS
CN 2-Propenoic acid, polymer with methyloxirane polymer with oxirane ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) (9CI) (CA INDEX NAME)

CM 1

CRN 79-10-7
CMF C3 H4 O2

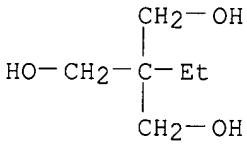


CM 2

CRN 52624-57-4
CMF C6 H14 O3 . 3 (C3 H6 O . C2 H4 O)x

CM 3

CRN 77-99-6
CMF C6 H14 O3

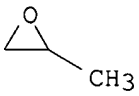


CM 4

CRN 9003-11-6
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 5

CRN 75-56-9
CMF C3 H6 O



CM 6

CRN 75-21-8
CMF C2 H4 O

L72 ANSWER 22 OF 22 HCAPLUS COPYRIGHT 2006 ACS on STN
AN 1978:511127 HCAPLUS
DN 89:111127
TI Stable suspensions of inorganic fillers in organic polyhydroxyl compounds
IN Von Bonin, Wulf

PA Bayer A.-G., Fed. Rep. Ger.
SO Ger. Offen., 32 pp.
CODEN: GWXXBX
DT **Patent**
LA German
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2654746	A1	19780608	DE 1976-2654746	19761203 <--
	US 4207227	A	19800610	US 1977-856075	19771130 <--
	SE 7713638	A	19780604	SE 1977-13638	19771201 <--
	BE 861425	A1	19780602	BE 1977-183104	19771202 <--
	FR 2372851	A1	19780630	FR 1977-36404	19771202 <--
	GB 1583457	A	19810128	GB 1977-50304	19771202 <--
	JP 53071189	A2	19780624	JP 1977-144639	19771203 <--
	ES 464700	A1	19781101	ES 1977-464700	19771205 <--
PRAI	DE 1976-2654746	A	19761203 <--		
	DE 1977-2714291	A	19770331 <--		

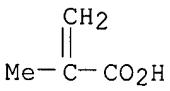
AB Polyols grafted with (meth)acrylic acid and, in some cases, other vinyl monomers were used to stabilize suspensions of inorg. fillers in polyols. These suspensions were useful for the manufacture of polyurethanes. Thus, a polyol (I) (mol. weight 4800) prepared from (HOCH2)3CEt, ethylene oxide, and propylene oxide was grafted (200 parts) with 10 parts styrene and 20 parts acrylic acid, and 52 parts graft copolymer was mixed with 400 parts I and 80 parts CaCO3 filler to prepared a stable suspension.

IT **67183-99-7 67184-01-4**
RL: USES (Uses)
(graft, for stabilization of polyol-filler suspensions for polyurethane manufacture)

RN 67183-99-7 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with methyloxirane polymer with oxirane ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) and 2-propenoic acid (9CI) (CA INDEX NAME)

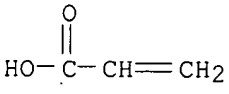
CM 1

CRN 79-41-4
CMF C4 H6 O2



CM 2

CRN 79-10-7
CMF C3 H4 O2

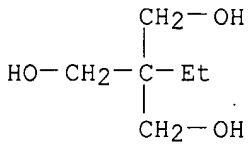


CM 3

CRN 52624-57-4
CMF C6 H14 O3 . 3 (C3 H6 O . C2 H4 O)x

CM 4

CRN 77-99-6
CMF C6 H14 O3

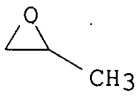


CM 5

CRN 9003-11-6
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 6

CRN 75-56-9
CMF C3 H6 O



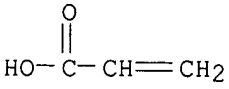
CM 7

CRN 75-21-8
CMF C2 H4 O

RN 67184-01-4 HCAPLUS
CN 2-Propenoic acid, polymer with methyloxirane polymer with oxirane ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) (9CI) (CA INDEX NAME)

CM 1

CRN 79-10-7
CMF C3 H4 O2

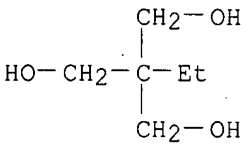


CM 2

CRN 52624-57-4
CMF C6 H14 O3 . 3 (C3 H6 O . C2 H4 O)x

CM 3

CRN 77-99-6
CMF C6 H14 O3

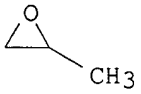


CM 4

CRN 9003-11-6
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 5

CRN 75-56-9
CMF C3 H6 O



CM 6

CRN 75-21-8
CMF C2 H4 O

=> d his

(FILE 'HOME' ENTERED AT 07:41:06 ON 12 DEC 2006)
SET COST OFF

FILE 'HCAPLUS' ENTERED AT 07:41:25 ON 12 DEC 2006
L1 7 S US20060020078/PN OR (US2004-516698# OR WO2003-EP6054 OR DE200
SEL RN

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     FILE 'REGISTRY' ENTERED AT 07:43:08 ON 12 DEC 2006
L2           75 S E1-E75
L3           28 S L2 NOT PMS/CI
L4            1 S L3 AND C6H14O3
L5            1 S L3 AND C3H4O2
L6            1 S L3 AND C4H6O2
L7           47 S L2 NOT L3
L8           12 S L7 AND 1/NC
L9           35 S L7 NOT L8
L10          16 S L9 AND 77-99-6/CRN
L11          16 S L10 AND C2H4O
L12          16 S L11 AND C3H6O
L13           4 S L12 AND 4/NC
L14          12 S L12 NOT L13
                SEL RN 4 9 11
L15           3 S E76-E78
L16           7 S L13,L15
L17             STR
L18          50 S L17
L19             STR
L20           0 S L19
L21             STR L19
L22          50 S L21
L23       36063 S L21 FUL
                SAV TEMP L23 NUTTER516/A
L24          50 S L17 SAM SUB=L23
L25       15641 S L17 FUL SUB=L23
                SAV TEMP L25 NUTTER516A/A
L26         497 S L25 AND (75-21-8 OR 25322-68-3)/CRN
L27        2695 S L25 AND C2H4O
L28        2198 S L27 NOT L26
L29         437 S L25 AND (75-56-9 OR 25322-69-4)/CRN
L30        1208 S L25 AND C3H6O
L31         771 S L30 NOT L29
L32         430 S L26-L28 AND L29-L31
L33         195 S L32 NOT (P OR SI OR N OR S)/ELS
L34         114 S L33 NOT C6/ES
L35         107 S L34 NOT L16
L36          50 S L35 AND (77-99-6 OR 79-41-4)/CRN
L37          34 S L35 AND 77-99-6/CRN
L38          28 S L37 AND (79-41-4 OR 79-10-7)/CRN
L39          24 S L38 NOT (OC4 OR OC4-C6)/ES
                SEL RN 1 2 10-12 14 17 10 22 24
L40           9 S E79-E87
L41          15 S L39 AND C6H14O3 NOT L40
                SEL RN 12
L42           1 S E88
L43          10 S L37 AND C6H14O3 NOT L39
L44          16 S L36 NOT L37-L43
L45          57 S L35 NOT L36-L44
L46         323 S L32 NOT L35-L45
L47          51 S L46 NOT (C6 OR OC4 OR OC5 OR OC4-C6 OR C6-C6 OR C5-C5)/ES
L48          47 S L47 NOT 56-81-5/CRN
L49          40 S L48 AND (N OR S OR P OR SI)/ELS
L50           7 S L48 NOT L49
L51           6 S L50 NOT 28961-43-5/CRN
L52         410 S L25 AND 107-21-1/CRN
L53        3059 S L52,L26-L28
L54         454 S L53 AND L29-L31
L55          99 S L53 AND 57-55-6/CRN
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L56           0 S L53 AND C3H8O2 NOT L55
L57         538 S L54,L55
L58         108 S L57 NOT L32-L51
L59          22 S L58 AND UNSPECIFIED
L60          86 S L58 NOT L59
L61          16 S L60 NOT (C6 OR OC4 OR OC4-C6 OR C6-C6 OR C5-C5)/ES
L62           6 S L16 NOT 28961-43-5/CRN
L63          16 S L62,L40,L42,L51
                SAV L63 TEMP NUTTER516B/A

     FILE 'HCAOLD' ENTERED AT 08:47:00 ON 12 DEC 2006
L64           0 S L63

     FILE 'USPATFULL' ENTERED AT 08:47:04 ON 12 DEC 2006
L65          15 S L63
L66          11 S L65 AND (PD<=20020611 OR PRD<=20020611 OR AD<=20020611)

     FILE 'USPATFULL' ENTERED AT 08:49:41 ON 12 DEC 2006

     FILE 'HCAPLUS' ENTERED AT 08:49:48 ON 12 DEC 2006
L67          23 S L63
L68          22 S L67 AND (PD<=20020611 OR PRD<=20020611 OR AD<=20020611) AND P
L69           0 S L67 AND PY<=2002 NOT P/DT
L70           7 S L68 AND BASF?/PA,CS
L71           4 S L68 AND (POPP ? OR DANIEL ? OR SCHRODER ? OR SCHROEDER ? OR J
L72          22 S L68-L71

     FILE 'REGISTRY' ENTERED AT 08:52:43 ON 12 DEC 2006

     FILE 'USPATFULL' ENTERED AT 08:53:04 ON 12 DEC 2006

     FILE 'HCAPLUS' ENTERED AT 08:53:31 ON 12 DEC 2006

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